Zoological Record

Vol. 92, Sect. 11, 1955

TRILOBITA

(1954)

COMPILED BY

J. T. TEMPLE, M.A., Ph.D.

LONDON

PUBLISHED BY

THE ZOOLOGICAL SOCIETY OF LONDON

PRICE FIVE SHILLINGS

December, 1957

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II. TRILOBITA

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CONTENTS

		PAGE
I.	TITLES	1
II.	SUBJECT INDEX	5
III.	SYSTEMATIC INDEX	11
IV.	ERRATUM	59

I.—TITLES

Balk, C. *see* Lochman, C.

Belyea, H. R. Deep wells and subsurface stratigraphy of part of the St. Lawrence Lowlands, Quebec. Geol. Surv. Bull. Can. No. 22 1952 : v+113 pp. pls. figs.

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Warburg, E. *see* Wickman, F. E.

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II.—SUBJECT INDEX

GENERAL LITERATURE AND HISTORY

Nomenclature (principles of).—Introduction of term *taxon*, recognition of neotypes, priority and co-ordinate nature of Family-Group names, emendation of generic and specific names, use of diacritic marks deprecated and substitution of a combination of letters recommended, microfilm distribution not to constitute " publication ", desirability of illustrating new species, proposed rejection of names published in synonymies, principle of first reviser preferred to strict application of page-and-line precedence, difference in spelling of even one letter sufficient to preclude homonymy, **Hemming;** Further reasons for regarding Hawle & Corda as joint authors of the " Prodrom ", **Prantl & Přibyl.**

General works. — Classification, **Hupé, Whittington (4);** Phacopacea, **Pillet;** Komaspidae, **Kobayashi;** Illaenidae, **Jaanusson;** Bohemian Harpedidae, **Prantl & Přibyl;** Ordovician type sections, **Keller;** Ordovician correlation of North America, **Twenhofel et al.**

Popular works. — Portuguese Cambrian trilobites, **Teixeira.**

Obituary.—E. Warburg, **Wickman.**

Bibliography. — Japanese palaeontology 1941–1950, **Endo (2);** Unpublished studies of the late J. Czarnocki, **Kielan.**

Abstract.—**Hanson (1).**

Check Lists. — Sardinian fossils, **Comaschi Caria;** Trilobite genera of Bohemia, **Přibyl (2).**

Reviews. — Of Hintze 1953, **Lochman, Whittington (1);** Of Hupé 1953, **Wilson (2).**

Preservation. — Silicification (probably by replacement of the original test from both sides) in Middle Ordovician forms, **Whittington & Evitt ;** " False granulation " of internal and external moulds, **R. & E. Richter (1) ;** Trilobites in metamorphic rocks, **Pavlovski & Frolova.**

Laboratory techniques. — Silicified specimens prepared by ingesting rock samples in 5–10 per cent. HCl solutions (occasionally renewed), followed by sieving, washing, drying, and loose storage, **Whittington & Evitt ;** Upper surface embedded in wax while test exposed by digging from below, wax later dissolved, **Temple.**

Museum Collections. — Whitfield Collection types at University of California, **Peck & McFarland ;** Type and figured specimens in New York State Museum, **Kilfoyle ;** Type specimens in Mendoza Natural History Museum, **Rusconi (3) ;** Types etc. in Manchester Museum, **Jackson ;** Revision of Middle Cambrian trilobites from Great Basin (U.S.A.) described before 1900, **Palmer (1).**

Affinities of Group.—Arguments based on presumed number of primary (larval) segments in Trilobites are of little value since there is no direct evidence on this point, **Dahl.**

Revision of Nomenclature.—*Paranileus* Hintze 1953 *non* Kobayashi 1951 renamed *Presbynileus*, *Pseudonileus* H. 1953 *non* K. 1951 renamed

Protopresbynileus, **Hintze**; *Actinolobus* Eichwald 1857 and *Decaulion* Stschegloff 1827 synonyms of *Illaenus* Dalman 1827, *Hydrolaenus* Salter 1867 of *Thaleops* Conrad 1843, *Wossekia* Raymond 1916 of *Ectillaenus* Salter 1867; specific homonyms and nomina nuda et dubia in Illaenidae, **Jaanusson**; *Avonaspis* Lochman 1940 a subjective synonym of *Welleraspis* Kobayashi 1935; *Acheilus* Clark 1924 strictly valid but disregarded as type is considered unidentifiable, *Acheilus* Raymond 1924 a subjective synonym of *Theodenisia* Clark 1948 to which most spp. of *A.* referred, **Rasetti (2)**; *Corbinia* Walcott 1925 probably a synonym of *Angelina* Salter 1859, **Wilson (1)**; *Lioharpes* Whittington 1950 a synonym of *Harpes* Goldfuss 1839, **Prantl & Přibyl**; *Paradiscus* Kobayashi 1943 a synonym of *Serrodiscus* R. & E. Richter 1941, **Hupé**; *Phylacops* Cooper & Kindle 1936 a synonym of *Cyclopyge* (*Cyclopyge*) Corda 1847, **R. & E. Richter (1)**; *Tetralichas* Phleger 1936 a synonym of *Acrolichas* Foerste 1920, **Weber (1)**; Törnquistiidae Hupé 1953 a synonym of Dimeropygidae H. 1953, *Onchaspis* [or *Onychaspis*] Raymond 1925 of *Ceratocephala* Warder 1838, **Whittington & Evitt**; *Amecephalus* Walcott 1924 a synonym of *Alokistocare* Lorenz 1906, *Deissella* Howell & Duncan 1939 *Deltophthalmus* Resser 1938 *Howellaspis* Lochman & Denson 1944 and *Hysteropleura* Raymond 1937 of *Bolaspidella* Resser 1937, *Eteraspis* Resser 1935 of *Asaphiscus* Meek 1873, *Metisia* R. 1937 of *Modocia* Walcott 1924, *Neolenus* Matthew 1899 of *Olenoides* Meek 1877, *Sonoraspis* Stoyanow 1952 of *Glossopleura* Poulsen 1927, **Palmer (1)**; *Acanthocnemis*, ? *Acanthogramma*, *Crithias*, *Enneacnemis*, *Goniacanthus*, ? *Micropyge*, *Selenosema*, *Staurogmus*, *Tetracnemis* Corda 1847 genn. and *Monadina* Barrande 1846 all synonyms of *Sao* Barrande 1846 (*non* Billberg 1820) which is suggested to be conserved; *Pinctus* Wilson 1951 a synonym of *Glaphyraspis* Resser 1937, *Stauroholcus* R. 1939 of *Spencia* R. 1939; *Arctaspis* Lermontova 1940 *non* Heintz 1929 renamed *Paracrocephalites*, **Poulsen**; *Acrolichas* Foerste 1919 and *Tetralichas* Phleger 1936 synonyms of *Amphilichas* Raymond 1905, *Aculeodiscus* Šnajdr 1950 of *Dawsonia* Hartt 1868, *Aeonia* Burmeister 1843 *Forbesia* McCoy 1846 *Gerastos* Goldfuss 1843 and *Trigonaspis* Sandberger 1850 of *Proetus* Steininger 1831, *Archegonus* Burmeister 1843 of *Dechenella* Kayser 1880, *Arethusina* Barrande 1852 of *Aulacopleura* Hawle & Corda 1847, *Arionellus* Barrande 1852 of *Agraulos* H. & C., *Arthrorhachis* H. & C. of *Trinodus* McCoy 1846, *Autolichas* Reed 1923 *Metopias* Eichwald 1842 and *Metopolichas* Gürich 1901 of *Lichas* Dalman 1827, *Autoloxolichas* Phleger 1936 of *Platopolichas* Gürich 1901, *Caphyra* Barrande 1846 (*non* Guérin-Ménévil 1832) of *Amphitryon* H. & C., *Conoparia* H. & C. *Cyphaspis* Burmeister 1843 and *Novákaspis* Přibyl 1946 of *Otarion* Zenker 1833, *Corydocephalus* H. & C. and *Plusiarges* Gürich 1901 of *Trochurus* Beyrich 1845, *Cryptonymus* Eichwald 1840 (*non* 1825) of *Encrinurus* Emmrich 1844, *Deucalion* Stschegloff 1827 of *Illaenus* Dalman 1827, *Endogramma* H. & C. and many others [see Poulsen above] of *Sao* Barrande 1846, *Euarges* Gürich 1901 of *Acanthopyge* H. & C., *Goldius* Koninck 1841 *Bronteus* Goldfuss 1843 *Dicranactis* H. & C. and *Holomeris* H. & C. of *Scutellum* Pusch 1833, *Harpina* Novák 1885 of *Eoharpes* Raymond 1905, *Hausmannia* Hall & Clarke 1888 of *Odontochile* Hawle & Corda, *Hemicrypturus* Green 1832 of *Asaphus* Brongniart 1822, *Herse* H. & C. of *Skreiaspis* Růžička 1944, *Hydrocephalus* Barrande 1846 *Phlysacium* and *Phanoptes* H. & C. of *Paradoxides* Bongniart 1822, *Krejčia* Novák MS of *Lehua* Barton 1920, *Leonaspis* R. & E. Richter 1917 of *Acantholoma* Conrad 1840, *Lioharpes* Whittington 1950 of *Harpes* Goldfuss 1839, *Liparges* Gürich 1901 of *Dicranogmus* H. & C., *Mesopheniscus* and *Diplorrhina* H. & C. *Mesagnostus* Jaekel 1909 *Quadragnostus* Howell 1935 and ? *Acadagnostus* Kobayashi 1939 of *Peronopsis* H. & C., *Microparia* and *Selenoptychus* H. & C. and *Aeglina* Barrande 1852 of *Cyclopyge* H. & C., *Octillaenus* Salter 1867 of *Alceste* H. & C., *Paragnostus* Jaekel 1909 of *Condy-*

lopyge H. & C., *Paranileus* Kobayashi 1951 of *Symphysurus* Goldfuss 1843, *Placoparina* Whittard 1940 tentatively of *Eccoptochile* H. & C., *Platagnostus* and *Grandagnostus* Howell 1935 of *Phalacroma* H. & C., *Polyeres* Rouault 1847 of *Selenopeltis* H. & C., *Polytomurus* H. & C. of *Dionide* Barrande 1847, *Proetidella* Bancroft 1949 of *Decoroproetus* Přibyl 1946, *Pseudomonaspis* R. & E. Richter 1917 of *Acidaspis* Murchison 1839, *Pseudonileus* Kobayashi 1951 of *Hemibarrandia* Prantl & Přibyl 1949, *Růžičkaia* Přibyl 1950 of *Lobocephalina* Růžička 1939, ? *Somatrikelon* M'Mutrie 1819 of *Phacops* Emmrich 1839, *Tetrapsellium* H. & C. of *Cryptolithus* Green 1832, *Trachylichas* Gürich 1901 ? *Dicranopeltoides* Phleger 1936 and ? *Raymondarges* P. 1937 of *Dicranopeltis* H. & C., *Tramoria* Reed 1899 of *Apatokephalus* Brögger 1896, *Trapelocera* H. & C. and *Bounyongia* Etheridge & Mitchell 1917 of *Ceratocephala* Warder 1838, *Wossekia* Raymond 1916 of *Ectillaenus* Salter 1867, **Přibyl (2).**

STRUCTURE

Terminology. — Introduction of terms *sutural ridge*, *anterior boss*, and (for the hypostome) *wing process*, *shoulder*, and *lateral notch*, as well as several terms for thoracic articulating structures, **Whittington & Evitt ;** *Sillon periglabellaire* for axial and pre-glabellar furrows on cephalon, **Hupé.**

Orientation. — Disarticulated fragments orientated with the planes of the posterior margins of the occipital and thoracic axial rings parallel and approximately vertical ; plane defined by inner parts of thoracic pleurae then taken as " horizontal ", **Whittington & Evitt.**

Segmentation. — No direct evidence as to the nature (particularly the origin of the mesoderm) of the segments in the protaspis, **Dahl ;** Paired axial spines on glabella of young *Ceratocephala* interpreted as belonging to five glabellar segments, significance of oblique spine-rows on cheeks discussed, **Whittington & Evitt.**

Glabella. — Term *cephalic rhachis* preferred to *glabella* in Illaenids ; form of ill-defined frontal lobe inferred from positions of anterior pits and hypostomal wings, **Jaanusson ;** Axial furrows not present in early stages of *Ceratocephala* but develop later, **Whittington & Evitt.**

Anterior pits.—Pits in Illaenids correspond with those of other groups, **Jaanusson.**

Eyes.—Structure of eye-surface in three cheirurid genera is of similar schizochroal type to that of Phacopids ; no evidence that in these genera the hypostomal maculae acted as eyes, **Whittington & Evitt.**

Eye-ridges. — In cheirurid *Holia* both an eye-ridge and a sutural ridge (false eye-ridge) developed, **Whittington & Evitt.**

Facial sutures.—Absence in Agnostids and some Eodiscids a secondary condition ; the secondarily ankylosed sutures of Olenellids considered to run parallel to, but just outside, the raised ocular lines, **Hupé ;** Sutures in some Cheirurids and *Dimeropyge* run along crests of raised sutural ridges ; in *Ceratocephala* the sutures are only rarely ankylosed, **Whittington & Evitt.**

Cephalic spines.—Intergenal spines of Olenellids considered composite, **Hupé ;** Two pairs of marginal spines in front of the genal spines are present on the fixed cheeks of young forms of several Cheirurids, becoming reduced in the adults ; genal spines of *Ceratocephala* not truly supramarginal, **Whittington & Evitt ;** Marginal spine (in addition to genal spine) on fixed cheek of meraspid *Ceraurinus*, **Tripp ;** Paired axial spines on glabellas of young *Ceratocephala*, *Dimeropyge* and other forms, corresponding oblique spine-rows on cheeks of *Ceratocephala* ; relation to segmentation discussed ; paired spines on posterior part of glabella of *C.* accepted (following Warburg) as occipital, **Whittington & Evitt ;** Different types of frontal cephalic spines in Phacopacea analysed, **Pillet.**

Rostral plate. — Described in *Paladin*, **Whittington (2)**; Dimeropygidae interpreted to include forms both with and without a separate rostral plate; curious structure of plate in sp. of *Dimeropyge*, **Whittington & Evitt**; In some Illaenids rostral plate has a posterior reflexed doublure; this feature used in classifying group, **Jaanusson.**

Hypostome. — Attachment to rest of cephalon deduced in several genera; in adult *Dimeropyge* hypostome may have been separated from rostral plate by uncalcified membrane; in Cheirurids and some other proparians the wing process lay very close to anterior boss and may have rested against it; suggested that antennule may have been attached by muscles to the back of the anterior boss and passed out through the lateral notch, **Whittington & Evitt**; In Illaenids with a rostral doublure hypostome lies very close underneath cephalon; shape of hypostomal wing used in classifying Illaenids, **Jaanusson**; Lateral wing of *Encrinurus* lies very close to axial furrow but not proved to articulate with it directly, **Temple**; Of *Hibbertia* described, **Tripp.**

Thoracic segments. — Articulating processes, flanges, and facets described in several genera, **Whittington & Evitt.**

Number of thoracic segments.— In Illaenids number of segments is a valid generic criterion, **Jaanusson.**

Segmental specialisation. — Axial spine on unknown thoracic segment of *Dimeropyge*, **Whittington & Evitt.**

Panderian organs.—Described in several Dimeropygidae, **Whittington & Evitt.**

Lateral pygidial spines.—Acquisition of free pleural spines independently in several subgenera of *Acaste*, the spines affecting initially only the inner surface of the test (i.e. visible only on internal moulds), **R. & E. Richter (1).**

Structure of integument.—Perforations through test in several genera may be associated with tubercles or spines; in related species perforations may be present in one and absent in another; perforations interpreted as loci of sensory hairs, **Whittington & Evitt**; In *Phacops* test stated to be formed of fibres of calcite arranged parallel [sic] to the surface; three layers described in *Phacops* and *Scutellum*, **Kielan.**

Ornamentation. — Discussed in several genera, often relatively stronger in young stages than in adults; development of tubercles and perforations described in *Acanthoparypha*, **Whittington & Evitt.**

Tubercles. — Over the pygidial tubercles of *Scutellum* the test is reduced to the thin outer (pigmented) layer, **Kielan.**

Appendages. — Postulated position and attachment of antennules, **Whittington & Evitt.**

Musculature. — Apodemes (of which the tips are often missing) and other deepened areas of muscle attachment (with the inner surfaces of the quartz often exfoliated) described in silicified specimens; no evidence that hypostomal maculae were muscle attachments, **Whittington & Evitt**; Four pairs of glabellar marks in Illaenids correspond with occipital and glabellar furrows in other forms; *Lateralgruben* on outer sides of axial furrows in Illaenids probably also muscle scars, **Jaanusson.**

Sensory organs. — Support for interpretation of canals through test as loci of sensory hairs, **R. & E. Richter (1).**

PHYSIOLOGY AND SEX

Size.—Size differences in comparable species from two Middle Ordovician limestones, **Whittington & Evitt.**

Enrolment. — Suggested fit of hypostome to posterior pygidial doublure in enrolment of *Encrinurus*, **Temple, Tripp.**

Blindness. — Blindness of Agnostids and some Eodiscids a secondary condition, **Hupé**; Blindness in Illaenids a secondary polyphyletic development, but may be used to characterise certain species-groups, **Öpik.**

Sexual dimorphism. — Broad and narrow forms in *Harpes* so interpreted, **Prantl & Přibyl.**

DEVELOPMENT

Ontogeny. — Developmental series in spp. of *Dimeropyge*, *Mesotaphraspis*, *Chomatopyge*, *Ceratocephala*, *Ceraurinella* (in which all the adult thoracic segments are already present in transitory pygidium of meraspis degree O), *Acanthoparypha* (protaspis described), *Holia*, *Sphaerexochus*, **Whittington & Evitt**; Development of *Welleraspis* described starting with metaprotaspis; meraspid glabella passes through a "corynexochid" stage, **Rasetti (2)**; Superfamily differences in protaspides of Cambrian forms, **Palmer (2)**.

Ecdysis. — Moulting modes in Olenellids, **Hupé.**

EVOLUTION AND CLASSIFICATION

General works (theories).—Discussion of paedomorphosis and gerontomorphosis, the two tendencies often being present together, **Hupé**; No evidence for recapitulation in trilobites, not possible yet to assess the importance of neoteny, **Whittington (4)**; Possible neoteny (glabellar shape) of *Theodenisia* relative to presumed ancestral *Welleraspis*, **Rasetti (2)**.

Evolutionary trends. — Independent development of free pleural spines on pygidium in many branches of Dalmanitidae, especially in Lower Devonian, **R. & E. Richter (1)**.

Phylogeny. — Eodiscoidae gave rise to Agnostoidae, all Polymera derived more or less directly from Redlichioidae, **Hupé**; Upper Cambrian Catillicephalidae of "corynexochid" appearance considered offshoots from Middle Cambrian Ptychopariids, **Rasetti (2)**; Common ancestry of Bathynotinae, Komaspinae and Telephinidae, **Kobayashi.**

Postulated lineages. — Several lineages in *Acaste* with independent development of free pleural spines on pygidial margin, **R. & E. Richter (1)**.

Variation. — Range of variation discussed in several spp., **Tripp.**

Measurements.—Lengths of transitory pygidia of *Ceraurinella* at various meraspid stages, **Whittington & Evitt.**

Classification (principles of).—Importance of paedomorphosis and gerontomorphosis in classification; condition of facial suture no more important than any other character; Miomera separated by hiatus from Polymera but within latter no grouping above superfamily level is possible, **Hupé**; Hypostomal similarity suggests a grouping together of the post-Cambrian proparian families; differences in origin of genal spines and in disposition of thoracic spines not important enough to justify separation of Ceratocephalidae and Odontopleuridae, **Whittington & Evitt.**

Classification. — General review, **Hupé**; Classification into four orders adopted: Hypoparia, Opisthoparia, Proparia, Agnostia, **Přibyl (2)**; Discussion, tentative suggestions for grouping superfamilies into five orders, importance of ontogenetic similarity in classification, **Whittington (4)**; Solenopleuridae classified into Solenopleurinae, Acrocephalitinae, Saoinae, Hystricurinae, **Poulsen**; Phacopacea, **Pillet**; Komaspidae, **Kobayashi.**

ECOLOGY AND HABITS

Migration. — Atlantic province Upper Cambrian and Tremadoc faunas in Texas; distribution of olenid (and other lower Palaeozoic) faunas may be facies-controlled, **Wilson (1)**; European *Onnia* from Venezuela, **Whittington (5)**.

Habits. — Discussion of mode of life of several genera, **Whittington & Evitt**; Suggested reasons for the common occurrence of trilobites in the living-chambers of cephalopods, **Pfeiffer**; Olenid faunas usually occur in dark argillaceous limestones, **Wilson (1)**; Harpids are found indifferently in various types of sediment, and were probably nektonic rather than benthic, **Prantl & Přibyl**; Large

eyes and genal spines of some Komaspids and Telephinids suggest adaptation to a nocturnal habit, **Kobayashi**; *Scutellum flabelliferum* and *Astycoryphe senckenbergiana* in Poland found only in coral-reef facies, **Kielan**.

Teratology. — Damaged brims in *Harpes*, **Prantl & Přibyl**.

DISTRIBUTION AND FAUNAS

Cambrian. — Argentina, **Rusconi** (3); Bohemia, **Přibyl** (2); Morocco (Anti-Atlas), **Choubert**.

Cambrian (Lower). — Morocco (Anti-Atlas), **Choubert & Hupé**; Portugal (Haut-Alemtejo), **Teixeira**.

Cambrian (Lower and Middle).— U.S.A. (Nevada), **Palmer** (2); U.S.A. (Vermont), **Shaw** (2).

Cambrian (Middle). — Germany (Thüringia), **Horstig**; U.S.A. (Nevada & Utah), **Palmer** (1).

Cambrian (Middle and Upper).— U.S.A. (Montana), **Hanson** (2).

Cambrian (Upper). — Argentina, **Rusconi** (1); Korea, **Kobayashi**; U.S.A. (Minnesota), **Schwartz & Thiel, Thiel**; U.S.A. (Minnesota and Wisconsin), **Berg**; U.S.A. (Montana and Wyoming), **Shaw** (1); U.S.A. (Pennsylvania), **Rasetti** (2); U.S.A. (Texas), **Wilson** (1); U.S.A. (Utah), **Hanson** (1).

Ordovician. — Argentina, **Rusconi** (2); Bohemia, **Prantl & Přibyl, Přibyl** (2); Canada (Quebec), **Belyea**; Germany (Hessen), **Kegel**; Germany (Rhineland), **R. & E. Richter** (1); Morocco (Anti-Atlas), **Choubert**; North America, **Twenhofel et al**; Sweden, Russia and Canada, **Jaanusson**; U.S.A. (Minnesota), **Schwartz & Thiel**; U.S.S.R. (Turkestan, Urals, Novaya Zemlya), **Weber** (1).

Ordovician (Lower). — Canada (Quebec) and Newfoundland, **Rasetti** (1); Germany (Thüringia), **R. & E. Richter** (2); U.S.A. (Minnesota), **Powell**; U.S.A. (Missouri), **Heller**; U.S.A. (Montana and Wyoming), **Shaw** (1); U.S.A. (New York), **Fisher**; U.S.A. (Texas), **Wilson** (1).

Ordovician (Middle). — Britain (Scotland), **Tripp**; Canada (Ontario), **Sinclair**; U.S.A. (Ohio and Kentucky), **Lattman**; U.S.A. (Oklahoma), **Whittington** (3); U.S.A. (Virginia), **Whittington & Evitt**; U.S.S.R. (Kazakhstan), **Keller & Lisogor**; Venezuela, **Whittington** (5).

Ordovician (Middle and Upper).— Estonia, **Rõõmusoks**.

Silurian. — Bohemia, **Prantl & Přibyl, Přibyl** (2); Germany (Hessen), **Kegel**.

Silurian (Lower). — Australia (Victoria), **Öpik**.

Silurian (Middle).—Britain (Worcestershire), **Temple**.

Silurian (Upper). — Czechoslovakia, **Přibyl** (1); Germany (Rhineland), France (Artois), Britain (England and Wales), **R. & E. Richter** (1).

Devonian. — Bohemia, **Přibyl** (1), **Přibyl** (2); Morocco (Anti-Atlas), **Choubert**; U.S.S.R. (Siberia), **Weber** (2); U.S.S.R. (Urals), **Maksimova**.

Devonian (Lower). — Germany (Harz), **Erben**; Germany (Rhineland), France (Ardennes, Artois, Brittany), Spain, **R. & E. Richter** (1).

Devonian (Lower and Middle).— Bohemia, **Prantl & Přibyl**.

Devonian (Middle). — Czechoslovakia, **Strnad & Kalabis**; Germany (Hessen), **Kegel**; Poland (Lysa Gora), **Kielan**; U.S.A. (New York), **Oliver**; U.S.A. and Canada, **Stumm** (1), **Stumm** (2), **Stumm** (3).

Devonian (Upper). — Germany (Thüringia), **Pfeiffer**.

Carboniferous (Lower). — Britain (Wales), **George**; Germany (Thüringia), **Pfeiffer**; Japan, **Minato**; U.S.A. (Texas), **Whittington** (2).

Carboniferous (Middle). — Manchoukuo, **Endo** (1).

Carboniferous (Upper). — Britain, **Trueman**; Spitzbergen (West), **Wang**.

Permian.—Japan, **Chisaka**.

III.—SYSTEMATIC INDEX

N.B.—*Since all the species of the group are fossil, the † used elsewhere in the Zoological Record to indicate fossils is here omitted.*

Acadagnostus Kobayashi 1939 referred to Spinagnostidae p. 122, **Hupé.**

Acadagnostus Kobayashi 1939 with query a synonym of *Peronopsis* Hawle & Corda 1847 p. 53, **Přibyl (2).**

Acanthaloma (*A.*) *laportei* (H. & C.), *A.* (*A.*) n. sp. [ex aff. *hoernesi* (Barr.)], *A.* (*A.?*) *glabrata* (Roem.), *A.* (*Kettneraspis*) *pigra* (B.), *A.* (*K.?*) n. sp. [ex aff. *truncata* (H. & C.)] listed pp. 92–97, **Erben.**

Acanthaloma (*Kettneraspis*) sp. p. 27 pl. iv figs. 5, 5*a*, **Kielan.**

Acanthocnemis Corda 1847 a synonym of *Sao* Barrande 1846 p. 446, **Poulsen** [also p. 64 **Přibyl (2)**].

Acanthogramma Corda 1847 may be a synonym of *Sao* Barrande 1846 p. 446, **Poulsen** [also p. 64 **Přibyl (2)**].

Acantholoma Conrad 1840—*Leonaspis* R. & E. Richter 1917 a synonym p. 23, **Přibyl (2).**

Acantholoma (*A.*) *roemeri* (Barr.) p. 130, *A. lochkovensis* Prantl & Přibyl p. 142, **Prantl & Přibyl.**

Acanthoparypha **gen. n.** [Cheiruridae (Acanthoparyphinae)] p. 72 for type *A. perforata* **sp. n.** p. 73 pl. xiii figs. 2, 4–6, pl. xiv figs. 1–19, pl. xv figs. 1–24, pl. xvi figs. 1–6, pl. xvii figs. 1–6, text-figs. 18–19 (reconstructions), *A. chiropyga* **sp. n.** p. 77 pl. xxviii figs. 31–44, pl. xxix figs. 1–34, pl. xxx figs. 1–28, text-fig. 20 Ordovician (Middle) U.S.A. (Va), development of *A.* p. 78; group of *Nieszkowskia tumida* Öpik 1928 referred to *A.* p. 72, **Whittington & Evitt** Mem. geol. Soc. Amer. No. 59 1954.

Acanthoparyphinae **subfam. n.** [Cheiruridae] p. 70 for *Acanthoparypha* **gen. n.**, *Holia* and *Nieszkowskia*, **Whittington & Evitt** Mem. geol. Soc. Amer. No. 59 1954.

Acanthopyge Hawle & Corda 1847 considered valid and referred to Acanthopyginae **subfam. n.** p. 19, *Euarges* Gürich 1901 a synonym, *A. leuchtenbergii* H. & C. a synonym of *A. haueri* (Barrande) p. 24, **Přibyl (2).**

Acanthopyge see *Lichas.*

Acanthopyge meridionalis (Frech) listed p. 97, **Erben.**

Acanthopyginae **subfam. n.** [Lichidae] with synonym Euarginae Gürich 1901, for *Acanthopyge* Hawle & Corda 1847 and *Hemiarges* Gürich 1901 p. 19, **Přibyl** Knihovna úst. Úst. geol. No. 25 1953.

Acastava **subgen. n.** see *Acaste.*

Acaste (*Acaste*) *dayiana* **sp. n.** [=*dayia* nom. nud. 1952] Silurian (Upper) Germany (Rhineland) p. 14 pl. iv figs. 45–56 text-fig. 4, *A.* (*A.*) sp. *A* for *A. downingiae* of Barrois et al. 1922 France (Liévin) p. 16, *A.* (*A.*) *downingiae* (Murchison 1839) discussed and lectotype chosen p. 16 pl. iii figs. 36–41, *A.* (*A.?*) sp. Britain (Wales) p. 17 pl. iii fig. 44; *A.* (*Acastoides*) *constricta* (Salter 1864) p. 17 pl. iii figs. 42–43; *A.* (*Acastava*) **subgen. n.** p. 20 for type *Cryphaeus atavus* Schmidt 1907 lectotype chosen and figured p. 21 pl. vi figs. 81–82 Devonian (Lower) Germany (Rhineland), *A.* (*Acastava*) *schmidti* (Richter 1913) and *A.* (*A.*) *intermedia* Kegel 1913 [for *C. i.* K.] so referred; *A.* (*Acastellina*) **subgen. n.** p. 21 for type *A. nolens* R. & E. Richter 1952 Devonian (Lower) Germany; *A.* (*Acastella*) Reed 1925 discussed, *A.* (*A.*) *heberti* (Gosselet 1888) discussed, *A.* (*A.*) cf. *h.* [for *A. spinosa* of Barrois et al. 1922 *partim* (pl. 15 fig. 7—refigured) and *C. michelini* of B. et al. *partim* (pl. 15 fig. 2) and *A. spinosa* of Asselberghs 1930 *partim*] p. 23 pl. ii fig. 30, *A.* (*A.*) *heberti heberti* (G. 1888) lectotype chosen and figured [including in synonymy *A. downingiae* of Leriche 1912, *A. spinosa* of B. et al. 1922 *partim* (pl. 17 figs. 1, 2) and of Asselberghs 1930 *partim* and 1943] p. 23 pl. ii figs. 27–29, *A.* (*A.*) *heberti elsana* **subsp. n.** for *A. spinosa ?* of R. & E. R. 1937 Devonian (Lower) Germany

(Rhineland) p. 24 pl. v figs. 64–71, pl. vi figs. 79–80 text-fig. 2, *A.* (*A.*) *h. elsana ?* p. 26, *A.* (*A.*) *tiro* **sp. n.** Devonian (Lower) Rhineland p. 26 pl. v figs. 72–75, pl. vi figs. 76–78 text-fig. 3, *A.* (*A.*) *tiro ?* and *A.* (*A.*) spp. indet. p. 27, *A.* (*A.*) *spinosa* (Salter 1864 *non* autorum) holotype refigured p. 27 pl. iv figs. 57, 58, ? 59 [record of G. & H. Termier 1950 from Morocco excluded and may not belong to *A.* (*Acastella*) p. 28], *A.* (*A.?*) sp. Silurian (Upper) Britain pl. iv fig. 60, *A.* (*A.*) *rouaulti* (Tromelin & Lebesconte 1875) neotype chosen p. 28 pl. iv figs. 61–62, *A.* (*A.*) sp. Devonian ? (Lower ?) Spain (Andalusia) p. 29 pl. ii fig. 35, *A. ?* (*A.?*) *artesia* **sp. n.** [for *A. spinosa* of Barrois et al. 1922 *partim* (? pl. 15 fig. 6 refigured) and *C. michelini* of B. et al. *partim*] Devonian (Lower) France (Liévin) p. 29 pl. ii figs. 31–34 text-fig. 5, *A.* (*A.*) sp. ind. listed p. 56, **R. & E. Richter** Abh. senckenb. naturf. Ges. No. 488 1954.

Acaste henni see *Acastoides henni*.

Acaste (*Acastoides*) *paeckelmanni* R. & E. Richter p. 5 *n*, CZARNOCKI *in* **Kielan.**

Acastella see *Acaste*.

Acastellina **subgen. n.** see *Acaste*.

Acastinae Delo 1935 referred to Phacopidae, and taken to include (i) *Acastina* Reed 1927, *Acastella* R. 1925, *Scotiella* Delo 1935, *Kloucekia* D. 1935, *Ormathops* D. 1935, *Phacopidina* Bancroft 1949, ? *Phacopina* Clarke 1913, ? *Portlockia* McCoy 1846, ? *Typhloniscus* Salter 1856; (ii) *Acastoides* D. 1935, *Calmonia* C. 1913, *Pennaia* C. 1913, and ? *Schizopyge* C. 1913 p. 824, **Pillet.**

Acastinae referred to Dalmanitidae (rather than Phacopidae), relations to Asteropyginae discussed pp. 38–39, **R. & E. Richter (1).**

Acastoides see *Acaste*.

Acastoides henni (Richter) for *Acaste h.* R. 1909 plastotype in N.Y. State Museum p. 623, **Kilfoyle.**

Achatella Delo 1935 referred to Pterygometopinae emend. p. 833, **Pillet.**

Achatella consobrina **sp. n.** Ordovician (Middle) Britain (Scotland) p. 683 pl. iv figs. 26–33, *A. retardata* (Reed) for *Phacops* (*Pterygometopus*) *r.* R. 1914, *A. truncatocaudata* (Portlock) for *P. t.* P. 1843 p. 685, **Tripp** Trans. roy. Soc. Edinb. **62** 1954.

Acheilops Ulrich discussed, affinities with Corynexochidae questionable p. 611, **Rasetti (2).**

Acheilus Clark 1924 nomenclaturally valid, but suggested that gen. be disregarded as the type *A. levisensis* C. is considered unidentifiable p. 609, see also *Acheilus* Raymond 1924 and *Theodenisia* Clark 1948, **Rasetti (2).**

Acheilus Raymond 1924 a junior homonym of *Acheilus* Clark 1924 [quod vide] and a subjective synonym of *Theodenisia* C. 1948 [quod vide] to which most spp. of *A.* are referred p. 609, *A. ? marginatus* Rasetti referred to *Triarthropsis* p. 607, **Rasetti (2).**

Acidaspidae — *Glaphurus* Raymond referred p. 62, **Weber (1).**

Acidaspis Murchison 1839 — *Pseudomonaspis* R. & E. Richter 1917 a synonym p. 25, **Přibyl (2).**

Acidaspis buchi p. 35, **Choubert.**

Acidaspis crosota see *Odontopleura crosota*.

Acidaspis hystrix Wyville Thomson referred tentatively to *Diacanthaspis* [quod vide] p. 664, **Tripp.**

Acidaspis lochkovensis Nov. p. 8, **Přibyl (1).**

Acidaspis ? sp. *A* Devonian (Middle) U.S.A. (Mich.) p. 127 pl. v figs. 14–15, **Stumm (1).**

Acidaspis sp. ind. p. 62 pl. x fig. 14, *A.* (*Leonaspis*) sp. (aff. *A. parvissimus* Eth. & Mitch.) p. 62 pl. x fig. 15, **Weber (1).**

" *Acidaspis* " sp. p. 18 *ff.*, **Erben.**

Acrocephalitidae Hupé 1953 see Acrocephalitinae.

Acrocephalitinae Hupé 1953 considered a subfamily of Solenopleuridae to include *Acrocephalites*, *Cliffia*, ? *Glaphyraspis*, ? *Paracrocephalites* **nom. n.**, *Pesaia*, ? *Raaschella* p. 445, **Poulsen.**

Acrolichas Foerste 1919 a synonym of *Amphilichas* p. 76, **Přibyl (2).**

Acrolichas Foerste 1920 discussed and *Tetralichas* Phleger considered probably a synonym, *A. cucullus* (Meek & Worthen) p. 58 pl. ix fig. 19, *A. punctatus* **sp. n.** Ordovician (Upper) U.S.S.R. (Turkestan) p. 58 pl. ix figs. 14–18, *A. ?* sp. ind. 1 for *Lichas* sp. Kolova 1936, *A. ?* sp. ind. 2 (*? A. dalecarlicus* Ang.) pl. ix fig. 24 text-fig. 26, **Weber** Monogr. Paleont. S.S.S.R. **69** 1948.

Acrolichas conifrons (Ruedemann) for *Amphilichas c.* R. 1916 holotype and paratype in N.Y. State Museum p. 501, **Kilfoyle.**

Acrolichas ? aff. *dalecarlicus* Ang. p. 51, **Keller & Lisogor.**

Actinolobus Eichwald 1857 a synonym of *Illaenus* Dalman 1827 p. 573, **Jaanusson.**

Actinopeltis globosus (Barrande 1846)—*A. caroli-alexandri* Hawle & Corda 1847 a synonym p. 25, **Přibyl (2).**

Aculeodiscus Šnajdr 1950 a synonym of *Dawsonia* Hartt [quod vide] p. 36, **Přibyl (2).**

Adastocephalus Mitchell 1919 referred tentatively to Phacopidellinae p. 824, **Pillet.**

Aeglina Barrande 1852 a synonym of *Cyclopyge* Hawle & Corda 1847 p. 34, **Přibyl (2).**

Aeglina or *Asaphus* sp. ? [now considered of inorganic origin] of Bolton 1899 original in Manchester Museum p. 33, **Jackson.**

Aeglina rediviva of Barrande 1872 *partim* (pl. 14 fig. 11) referred to *Cyclopyge* (*C.*) *r. umbonata* (Angelin 1854) *?* p. 12, *A. prisca* B. 1872 type of *C.* (*Pricyclopyge*) **subgen. n.** p. 12 to which are also referred *A. p.* var. *synophthalma* Klouček 1917 and *A. binodosa* Salter 1864, *A. speciosa* var. *synophthalma* K. 1917 [=*kloučeki* Richter] referred to *C.* (*Microparia*), **R. & E. Richter (1).**

Aeonia Burmeister 1843 a synonym of *Proetus* p. 59, **Přibyl (2).**

Agnostacea considered to constitute an order Agnostia, classified into Agnostidae and Eodiscidae p. 21, **Přibyl (2).**

Agnostia as an order for Agnostacea alone p. 21, **Přibyl (2).**

Agnostid gen. and sp. undetermined p. 582 pl. lxi figs. 13–14, **Rasetti (1).**

Agnostid sp. undet. pl. xxiv fig. 14 *pars*, **Wilson (1).**

Agnostinae — *Ptychagnostus* Jaekel 1909 referred p. 60, **Palmer (1).**

Agnostoidae discussed p. 117, constituent families p. 119 *ff.*, **Hupé.**

Agnostoidae — suggested grouping with Eodiscoidae as an order p. 198, **Whittington (4).**

Agnostus seclusus Walcott 1884 referred to *Kormagnostus* p. 59, *A. interstrictus* White 1874 to *Peronopsis* p. 60, *A. richmondensis* Walcott 1884 including *A. bidens* Walc. 1884 (*non* Meek) to *Ptychagnostus* [quae vide] p. 61, *A. bidens* M. to *Peronopsis* p. 62, **Palmer (1).**

Agraulinae Howell 1937 referred as subfamily to Conocoryphidae p. 16, **Přibyl (2).**

Agrauloidae see Ptychoparioidae.

Agraulopsis Růžička 1939 referred to Ptychopariinae p. 16, **Přibyl (2).**

Agraulos Hawle & Corda 1847—*Arionellus* Barrande 1852 a synonym p. 25, **Přibyl (2).**

Agraulos cushingi see *Camaraspis cushingi.*

Agraulos difformis [Angelin] & *A. anceps* [Westergård] from Sweden considered congeneric with *Nasocephalus nasutus* and *N. flabellatus* **gen. et spp. n.** from Texas p. 268 *n*, **Wilson (1).**

Agraulos (*Bathyurus ?*) *woosteri* Whitfield 2 syntypes (1882 pl. 1 figs. 19–20, 21) at Univ. of California p. 307, **Peck & McFarland.**

Agraulus [sic] *longicephalus* (Hicks) for *Arionellus longicephalus* H. [quod vide] p. 34, **Jackson.**

Albansia Howell 1937 referred tentatively to Solenopleurinae p. 444, **Poulsen.**

Alceste Hawle & Corda 1847 may be synonymous with and have priority over *Octillaenus* Salter 1867 if its type *A. latissima* H. & C. 1847 is a synonym of *Illaenus hisingeri* Barrande 1846 type of *O.* p. 568, **Jaanusson.**

Alceste Hawle & Corda 1847 considered a subgenus of *Illaenus*, *Octillaenus* Salter 1867 a synonym p. 46, **Přibyl (2).**

Aldonia [recte *Aldonaia*] *ornata* Lermontova text-fig. 73 (4) after L., **Hupé.**

Alokistocare Lorenz 1906 discussed and *Amecephalus* Walcott 1924 considered synonymous p. 71, *A. piochensis* (W.) for *Ptychoparia p.* W. 1886 (holotype refigured) with synonym *A. packi* Resser 1935 p. 72 pl. xvi figs. 1, 2, 5, hypostome attributed to *Zacanthoides typicalis* (Walcott) may belong to *A. piochensis* p. 70, *A. subcoronatum* (Hall & Whitfield) holotype refigured p. 72 pl. xv fig. 8, **Palmer (1).**

Amblycranium Ross 1951 referred to Hystricurinae p. 446, **Poulsen.**

Amecephalus Walcott 1924 discussed and considered a synonym of *Alokistocare* Lorenz 1906 [quod vide] p. 71, **Palmer (1).**

Ameuria [recte *Ameura*] sp. for *Phillipsia* cf. *eichwaldi* of Holtedahl 1911 (pl. 2 fig. 11) p. 347, **Wang.**

Amphilichas [Raymond 1905]—*Acrolichas* Foerste 1919 and *Tetralichas* Phleger 1936 synonyms pp. 76, 78, **Přibyl (2).**

Amphilichas conifrons see *Acrolichas conifrons.*

Amphilichas declivis **sp. n.** p. 656 pl. i figs. 1–4, *A. planus* **sp. n.** p. 657 pl. i figs. 5, 6 Ordovician (Middle) Britain (Scotland), *A.* cf. *hibernicus* Reed 1906 (*non* Portlock) *partim* p. 658 pl. i figs. 7–9, *A.* spp. [sp. on pl. expl.] p. 659 pl. i figs. 10, 11, **Tripp** Trans. roy. Soc. Edinb. **62** 1954.

Amphilichas karakanensis Web. p. 57 **Keller & Lisogor.**

Amphilichas sniatkovi (Web.) p. 56 pl. ix figs. 6, 7, 13, *A. batchaticus* W. p. 57 pl. ix fig. 8, *A. karakanensis* **sp. n.** Ordovician (Lower) U.S.S.R. (Turkestan) p. 57 pl. ix figs. 9–12 text-fig. 24, *A.* aff. *k.* pl. ix figs. 22, 25, text-fig. 25, *A. ?* sp. 1 [for *A. ?* sp. W. 1928 refigured] p. 61 pl. x fig. 13, *A. ?* sp. ind. 2 [*A.* sp. on pl. expl.] pl. x figs. 11–12, *A. ?* sp. 3 (*A. karakanensis* ?) p. 62 pl. x fig. 9, *A.* sp. 4 (*A. wahlenbergi* Warb.?) pl. x fig. 10, *A. ?* sp. 5 (cf. *A. w.*) pl. ix fig. 20; *Lichas* (*A.*) *bronnikovi* Weber type of *Lyralichas* **gen. n.** p. 60, **Weber** Monogr. Paleont. S.S.S.R. **69** 1948.

Amphion gelasinosus Portlock 1843 referred to *Ceraurinus* [quod vide] p. 677, **Tripp.**

Amphitryon Hawle & Corda 1847—*Caphyra* Barrande 1846 [quod vide] a synonym, *A. murchisoni* H. & C. a synonym of *A. radians* (B. 1846) p. 26, **Přibyl (2).**

Ampyx americanus recorded p. 286, B. N. Cooper *in* **Twenhofel et al.**

Ampyx rugosus Kolova p. 16 pl. ii figs. 14–15, *A. sergunkovae* **sp. n.** for *A.* aff. *drummuckensis* of K. 1936 Ordovician (Middle) U.S.S.R. (Turkestan) p. 16 pl. ii fig. 16; *A. bulbifer* Weber 1932 referred tentatively to *Raphiophorus* p. 15, *A.* cf. *macallumi* of Kolova 1936 to *Lonchodomas* sp. 2, *A.* (*L. ?*) *tekturmasi* W. 1932 to *L.* p. 18, **Weber** Monogr. Paleont. S.S.S.R. **69** 1948.

Ampyx salteri Hicks 1875 syntype (pl. 10 fig. 8) in Manchester Museum p. 33, **Jackson.**

Ampyx aff. *volborthi* Schm. p. 57, **Keller & Lisogor.**

Anchiopella Reed 1907 referred to Monorakeidae (very tentatively to Coronurinae **? subfam. n.**) p. 835, spp. placed by Delo in *Synphoria* cannot be referred to *Anchiopella* p. 834, **Pillet.**

Anchiopella Reed 1907—disputed that type species is *Calymene anchiops* Green which is accepted as type of *Anchiopsis* Delo 1935 p. 210, **Stumm (3).**

Anchiopsis Delo 1935 considered valid, *A. anchiops* (Green) considered not the type species of *Anchiopella* Reed 1907 [quod vide] p. 210 pl. iii figs. 4–5, *A. tuberculatus* **sp. n.**

Devonian (Middle) U.S.A. (Ky) including *Dalmanites a.* of Hall & Clarke 1888 *partim* p. 211 pl. iii figs. 6–10, **Stumm** Contr. Mus. Geol. Univ. Mich. **11** 11 1954.

Ancyropyge Clarke 1891 considered of generic status, *A. romingeri* (Hall & Clarke) p. 126 pl. vi figs. 1–2, **Stumm (1).**

Andesaspis Kobayashi 1935 discussed and referred to Oleninae, *A. argentinensis* K. 1935 from Texas p. 279 pl. xxvi figs. 3, 6, *Beltella ?* sp. Hutchinson 1952 may belong to *A.* p. 277, **Wilson (1).**

Angelina Salter 1859 referred to Oleninae with notes on spp., *Corbinia* Walcott 1925 probably a synonym p. 278, **Wilson (1).**

Annamitella Mansuy 1920 discussed p. 10, *A. ? granulata* **sp. n.** p. 11 pl. i figs. 22–24 text-fig. 2, *A. ? acra* **sp. n.** p. 11 pl. i figs. 25–26 text-fig. 3 Ordovician (Lower) U.S.S.R. (Turkestan); *A. namnoiensis* Reed see Gen. et sp. ind. 4, **Weber** Monogr. Paleont. S.S.S.R. **69** 1948.

Annamitella ? granulata Weber 1948 type of *Bathyuriscops* **gen. n.**, *A. ? acra* W. and Gen. et sp. indet. [6] W. 1948 synonyms p. 76, **Keller & Lisogor.**

Antagmus sp. protaspid and other developmental stages described briefly p. 737, **Palmer (2).**

Apachia Frederickson 1949 referred tentatively to Hystricurinae p. 446, **Poulsen.**

Apachia recorded p. 51, **Hanson (1).**

Apatocephalus assai Web. p. 12 pl. ii figs. 1–3, *A. assai ?* p. 12 pl. ii fig. 4, **Weber (1).**

Apatokephalus Brögger 1896—*Tramoria* Reed 1899 a synonym, *A. serratus* (Boeck) and *A.* sp. listed from Bohemia p. 26, **Přibyl (2).**

Apatokephalus serratus (Sars & Boeck) 1838 from Texas p. 275 pl. xxvii figs. 1, 2, 13, **Wilson (1).**

Aphelaspis Resser 1935 similarity to *Grönwallia* and *Nericia* p. 250, *A.* cf. *A. walcotti* R. 1938 p. 270 pl. xxv figs. 12 *pars*, 14, pl. xxvi fig. 17, *A.* sp. undet. p. 270 pl. xxv fig. 18 [see also " *Taenicephalus* " *longifrons* and Undetermined cranidia], **Wilson (1).**

cf. *Aphelaspis* recorded p. 51, **Hanson (1).**

Arapahoia recorded p. 16, **Hanson (2).**

? Arapahoia pichana Rusc. p. 15 text-fig. 7, *? A. lasheriana* **sp. n.** p. 53 pl. iv fig. 13, *? A. australis* **sp. n.** p. 53 pl. iv fig. 14 Cambrian (Upper) Argentina, *? A.* cf. *l.* p. 54, **Rusconi** Rev. Mus. Hist. nat. Mendoza **7** 1–4 1954.

Archegonus Burmeister 1843 listed without comment as a synonym of *Dechenella* [Kayser 1880] p. 76, **Přibyl (2).**

Arctaspis Lermontova 1940 *non* Heintz 1929 renamed *Paracrocephalites* **nom. n.** [quod vide] p. 445, **Poulsen.**

Arctinurus boltoni (Bigsby) specimen of Phleger (1936 text-figs. 16, 17) in N.Y. State Museum p. 501, **Kilfoyle.**

Arethusina Barrande 1852 a synonym of *Aulacopleura* Hawle & Corda 1847 p. 27, **Přibyl (2).**

Arionellus Barrande 1852 a synonym of *Agraulos* Hawle & Corda 1847 p. 25, *A. spinosus* Jahn a synonym of *Skreiaspis neubergii* (H. & C.) p. 67, **Přibyl (2).**

Arionellus longicephalus Hicks 1872 syntypes in Manchester Museum, referred to *Agraulus* [sic] p. 34, **Jackson.**

Arthrorhachis Hawle & Corda 1847 a synonym of *Trinodus* McCoy 1846 p. 70, **Přibyl (2).**

Asaphellus Callaway 1877—possible synonymy of *Hemigyraspis* Raymond 1910 [quod vide] p. 44, **Přibyl (2).**

Asaphellus gyracanthus Raymond p. 85 *ff.* pl. iv fig. 10, **Fisher.**

Asaphellus sp. undet. p. 283 pl. xxvii figs. 3, 11, **Wilson (1).**

Asaphid recorded p. 614, **Whittington (3).**

Asaphid pygidium sp. undet. p. 284 pl. xxvii fig. 21, **Wilson (1).**

Asaphidae Burmeister discussed p. 22, **Weber (1).**

Asaphidae see *Borthaspidella* **gen. n.**

Asaphidarum gen. ind. sp. 1 [for *Basilicus ?* cf. *lawrowi* of Kolova 1936] p. 29, sp. 2 p. 30 pl. v figs. 10–11, sp. No. 3 (n. sp.) [sic] pl. v fig. 18, spp. 4 [for *Megalaspis ?* of Kolova 1936] and 5 p. 30, sp. 6 (n. sp. aff. *B. yokusensis* Kobayashi) p. 30 pl. v figs. 15–16, sp. 7, sp. 8 p. 31 pl. iii fig. 15, sp. 9 p. 31 pl. v fig. 17, sp. 10 p. 31 pl. v fig. 14, sp. 11 p. 31 pl. iii figs. 10, 16, sp. 12 p. 31 pl. v fig. 19, spp. 13 and 14 p. 31 [for *Asaphus ?* and *A.* sp. ind. of Weber 1928] Ordovician U.S.S.R., **Weber** Monogr. Paleont. S.S.S.R. **69** 1948.

Asaphidarum ? gen. et sp. ind. sp. 15 p. 32 pl. xi fig. 29 Ordovician (Lower) U.S.S.R. (Urals), **Weber** Monogr. Paleont. S.S.S.R. **69** 1948.

Asaphinae see Species and genus undet.

Asaphiscid [undet.] p. 1044, **Shaw (2).**

Asaphiscoidae see Ptychoparioidae.

Asaphiscus Meek 1873 discussed and *Eteraspis* Resser 1935 considered a synonym, *A. laeviceps* (Walcott) for *Ptychoparia l.* W. 1884 holotype refigured p. 73 pl. xvi figs. 4, 6, *A. wheeleri* Meek p. 74 pl. xvi fig. 7; *A.* spp. of Resser & Endo 1937 excluded from *A.* p. 73, **Palmer (1).**

Asaphoidae taken to include Asaphidae, Remopleurididae, ? Ceratopygidae, ? Nileidae, ? Komaspidae, ? Telephinidae, ? Cyclopygidae p. 196 text-fig. 2 [see also Ptychoparioidae], **Whittington (4).**

Asaphus [Brongniart 1822] — *Hemicrypturus* Green 1832 a synonym p. 77, *A. longicaudatus* Murchison 1839 a synonym of *Dalmanites caudatus* Brünnich 1781 p. 35, **Přibyl (2).**

Asaphus see *Aeglina.*

? Asaphus acequionensis **sp. n.** Cambrian Argentina p. 57 *n* [unillustr.], **Rusconi** Rev. Mus. Hist. nat. Mendoza **7** 1–4 1954.

Asaphus diurus Green 1839 types stated to be lost and locality in doubt, may be conspecific with *Coronura aspectans* (Conrad) p. 205, **Stumm (3).**

Asaphus expansus (Linné) two specimens of Ruedemann (1916 pl. 34 fig. 7, pl. 35 fig. 9) in N.Y. State Museum p. 501, **Kilfoyle.**

Asaphus homolonotoides Walcott and *A. susae* Calvin types not at Univ. of California p. 299, **Peck & McFarland.**

Asaphus cf. *radiatus* of Freyberg 1923 (refigured) referred to *Hungioides graphicus* **sp. n.** p. 341, **R. & E. Richter (2).**

Asaphus tyrannus p. 35, **Choubert.**

Asaphus ? Weber 1928 referred to Asaphidarum gen. ind. sp. 13, *A.* sp. ind. W. 1928 to sp. 14 p. 31, **Weber (1).**

Aspidaeglina Holub 1911, *A. miranda* H. 1911 listed from Bohemia p. 26, **Přibyl (2).**

Asteropyge Hall & Corda 1847 discussed and divided into *A.* (*Asteropyge*) for forms like *A.* (*A.*) *punctatus* (Steininger) text-pl. iii fig. 1 and *A. drevermanni* Richter text-pl. i fig. 4, and *A.* (*Metacanthina*) **subgen. n.** for type *Cryphaeus barrandei* Oehlert 1889 Devonian p. 830 text-pl. iii fig. 2, **Pillet** Bull. Soc. géol. Fr. (6) **3** 9 1954.

Asteropyge ? allardycae (Clarke) for *Cryphaeus ? a.* C. 1913 cotypes in N.Y. State Museum p. 623, **Kilfoyle.**

Asteropyge (*Neometacanthus*) *czarnockii* **sp. n.** Devonian (Middle) Poland (Lysa Gora) p. 41 pl. vii figs. 6–11 text-fig. 35, *A.* (*Comura*) Richter 1926 considered founded on relatively unimportant and variable characters p. 43, **Kielan** Palaeont. polon. No. 6 1954.

Asteropyge (*Asteropyge ?*) *ebbae* **sp. n.** Germany (Rhineland) p. 30 pl. vi figs. 83–92 [where referred on pl. expl. to *A.* (*Rhenops ?*)] text-fig. 6,

A. sp. p. 31, *A.* (*Rhenops ?*) *michelini* (Rouault 1851) neotype suggested p. 31, *A.* (*R.?*) sp. *M* for *Cryphaeus michelini* of Barrois et al. 1922 *partim* (pl. 15 figs. 1, 3, 4, ?5) France (Liévin) Devonian (Lower) p. 32, **R. & E. Richter** Abh. senckenb. naturf. Ges. No. 488 1954.

Asteropyge rotundifrons R. & E. Richter, *A.* n. sp. [undescr.] p. 5 *n*, Czarnocki *in* **Kielan.**

Asteropyginae Delo 1935 referred to Dalmanitidae, and classified into (i) *Asteropyge* Hawle & Corda 1847, *Neometacanthus* Richter 1948, *Kayserops* D. 1935, *Rhenops* R. 1943, *Pseudocryphaeus* **gen. n.**; *Cryphaeoides* D. 1935, *Greenops* D. 1935, *Metacryphaeus* Reed 1907, *Hadrorachus* D. 1935; *Comura* Richter 1926; (ii) *Cryphina* Oehlert 1889 [quae vide] p. 830, **Pillet.**

Asteropyginae origins and relations to Acastinae discussed pp. 38–39, **R. & E. Richter** (**1**).

Asthenopsis Whitehouse 1939 referred to Solenopleurinae p. 444, **Poulsen.**

Astycoryphe gracilis (Barr.) listed p. 97, **Erben.**

Astycoryphe gracilis (Barr.) p. 23, **Kegel.**

Astycoryphe senckenbergiana R. & E. Richter 1919 geographical race from Poland p. 22 pl. iv figs. 1–4 text-figs. 14, 16 (each three views), 15, **Kielan.**

Athabaskia Raymond 1928 referred to Dolichometopidae and discussed, *A. howelli* (Walcott) for *Bathyuriscus h.* W. 1886 holotype refigured p. 65 pl. xiii fig. 8, **Palmer** (**1**).

Athabaskia sp. indet. p. 1043, **Shaw** (**2**).

Atractopyge killochanensis **sp. n.** Ordovician (Middle) Britain (Scotland) p. 678 pl. iv figs. 1–5 [see also Cybelid hypstome], *A. michelli* (Reed) for *Cybele m.* R. 1914 p. 679, **Tripp** Trans. roy. Soc. Edinb. **62** 1954.

Aulacodiscidae nov. [Hupé 1953] diagnosis p. 117, **Hupé.**

Aulacodiscus bilobatus Westergård text-fig. 42, **Hupé.**

Aulacopleura Hawle & Corda 1847 —*Arethusina* Barrande 1852 a synonym p. 27, **Přibyl** (**2**).

Aulacopleura konincki (Barr.) p. 12, **Kegel.**

Aulacopleura (*A.*) *konnicki* [sic] (Barr.) p. 130, **Prantl & Přibyl.**

Austinvillia n. sp. [undescr.] p. 1038, **Shaw** (**2**).

Autolichas Reed 1923 a synonym of *Lichas* p. 76, **Přibyl** (**2**).

Autoloxolichas Phleger 1936 a synonym of *Platopolichas* Gürich 1901 p. 56, **Přibyl** (**2**).

Avonaspis Lochman 1940 a subjective synonym of *Welleraspis* Kobayashi 1935 p. 601, **Rasetti** (**2**).

Bailiella cf. *gemina* (W. E. Schmidt) p. 453, **Horstig.**

Baltagnostus sp. undet. pl. xxiv fig. 23, **Wilson** (**1**).

Basidechenella see *Dechenella.*

Basilicus isidrensis Rusc. p. 76 text-fig. 5, **Rusconi** (**2**).

Basilicus nobilis Barr. p. 22 pl. iii figs. 8–9, 11–14; *B.* cf. *peltastes* of Kolova 1936 (refigured) referred to *Ptychopyge ? vodorezovi* **sp. n.** p. 29, *B. ?* cf. *lawrowi* of K. 1936 to Asaphidarum gen. ind. sp. 1 p. 29, *B. yokusensis* Kobayashi see A. gen. ind. sp. 6, **Weber** Monogr. Paleont. S.S.S.R. **69** 1948.

Basiliella zivolkai **sp. n.** (aff. *B. minima* Kobayashi) p. 23 pl. iv figs. 1–5 text-fig. 6 Ordovician Novaya Zemlya, **Weber** Monogr. Paleont. S.S.S.R. **69** 1948.

Bathycheilinae **subfam. n.** (or **fam. n.**) [Calymenidae] for *Bathycheilus* Holub 1908 p. 19, **Přibyl** Knihovna úst. Úst. geol. No. 25 1953.

Bathycheilus Holub 1908 referred to Bathycheilinae **subfam. n.** p. 19, **Přibyl** (**2**).

Bathynotinae subfam. nov. [recte Hupé 1953] referred to Komaspidae, taken to include *Bathynotus*, *Bathynotellus*, tentatively *Schmidtaspis* p. 31, **Kobayashi.**

Bathynotus holopygus Hall reconstruction text-fig. 67, **Hupé.**

Bathynotus holopygus ? p. 1041, **Shaw (2).**

Bathyuriscidae see *Bathyuriscops* **gen. n.**

Bathyuriscidella palauca **sp. n.** Cambrian (Upper) Argentina p. 56 [unillustr.], **Rusconi** Rev. Mus. Hist. nat. Mendoza **7** 1–4 1954.

Bathyuriscops **gen. n.** [Bathyuriscidae] p. 75 for type *Annamitella ? granulata* Weber 1948 with synonyms *A. ? acra* W. and Gen. et sp. indet. [6] W. 1948 p. 76 pl. i figs. 1–7 Ordovician (Middle) U.S.S.R. (Kazakhstan), **Keller & Lisogor** Trav. Inst. géol. U.R.S.S. **154** 1954.

Bathyuriscus recorded p. 15, **Hanson (2).**

Bathyuriscus howelli Walcott 1886 referred to *Athabaskia* p. 66, **Palmer (1).**

Bathyurus vertical range Chart 2, **Twenhofel et al.**

Bathyurus ? crotalifrons see *Hystricurus crotalifrons.*

Bathyurus ? taurifrons Dwight 3 cotypes (1884 pl. 7 figs. 1, 2, 3) in N.Y. State Museum p. 502, **Kilfoyle.**

Bathyurus ? woosteri see *Agraulos woosteri.*

Bathyurus sp. p. 57, **Keller & Lisogor.**

Bathyurus ? sp. (cf. *Cyphaspis slocomi* Raym.) p. 47 pl. vii fig. 30 text-fig. 18, **Weber (1).**

Bavarilla Barrande 1868 referred to Olenidae (Oleninae) p. 16, **Přibyl (2).**

Bellefontia vertical range Chart 2, **Twenhofel et al.**

Bellefontia nonius Walcott ? p. 75 pl. xiii figs. 11–12, **Powell.**

Bellefontia sp. p. 87, **Fisher.**

Bellefontia sp. undet. p. 284 pl. xxvii figs. 9, 19 [fig. 9 cf. *B. ? acuminiferentis* Ross which may not be a true *B.*], **Wilson (1).**

Beltella Lake 1919 referred to Oleninae, list of known spp. p. 276, *B. latifrons* **sp. n.** Ordovician (Lower) U.S.A. (Texas) p. 277 pl. xxvi figs. 2, 4 *pars*, 5, 7, 10, *B. ?* sp. Hutchinson 1952 may belong to *Andesaspis*, **Wilson** J. Paleont. **28** 3 1954.

Bemaspis dubita **sp. n.** Cambrian (Upper) U.S.A. (Texas) p. 272 pl. xxv figs. 4, 9, 21, **Wilson** J. Paleont. **28** 3 1954.

Berkeia Resser 1937 referred to Solenopleurinae p. 444, **Poulsen.**

Berkeia recorded p. 51, **Hanson (1).**

Berkeia saratogensis Resser 1942 holotype and paratypes in N.Y. State Musuem p. 624, **Kilfoyle.**

Bienvillia Clark 1924 referred to Olenidae, *B. terranovica* **sp. n.** Ordovician (Lower) Newfoundland p. 582 pl. lxi figs. 7–12, *B. corax* (Billings) pl. lxi fig. 15, **Rasetti** J. Paleont. **28** 5 1954.

Billingsaspis adamsii p. 1036 *ff.*, *B. walcotti* p. 1042, **Shaw (2).**

Blountia recorded p. 51, **Hanson (1).**

Blountia assimilis Resser 1938 p. 268 pl. xxiv fig. 17, *B. ovata* Duncan 1944 p. 268 pl. xxiv fig. 6, **Wilson (1).**

Blountiella sp. undet p. 267 pl. xxiv fig. 16, **Wilson (1).**

Blountina recorded p. 51, **Hanson (1).**

Blountina aff. *B. westoni* Rasetti 1946 p. 267 pl. xxiv figs. 4, 5, 9, **Wilson (1).**

Bohemillidae referred to Proparia p. 20, **Přibyl (2).**

Bohemopyge Přibyl 1950 [so dated] may be a subgenus of *Niobe* Angelin 1852 p. 28, **Přibyl (2).**

Bolaspidella Resser 1937 discussed and *Hysteropleura*, *Deltophthalmus*, *Deissella*, *Howellaspis* considered synonyms p. 74, *B. housensis* (W.) holotype refigured p. 75 pl. xvi fig. 3, **Palmer (1).**

Bolbocephalus Whitfield 1890 excluded from Dimeropygidae p. 100, **Whittington & Evitt.**

Bonnia capito p. 1038 *ff.*, *B. bubaris* p. 1039, **Shaw (2).**

Borthaspidella **gen. n.** [Asaphidae] p. 585 for type *B. gaspensis* **sp. n.** Ordovician (Lower) Canada (Quebec) p. 587 pl. lx figs. 9–15 text-fig. 1, *Symphysurus ? anderssoni* Troedsson 1937 tentatively referred to *B.* p. 587, **Rasetti** J. Paleont. **28** 5 1954.

Bouleia Kozlowski 1923 referred to Phacopinae p. 823, **Pillet.**

Bounyongia Etheridge & Mitchell 1917 a synonym of *Ceratocephala* Warder 1838 p. 31, **Přibyl (2).**

Brachiaspion [? recte *Brachyaspidion*] recorded p. 15, **Hanson (2).**

Brevidiscus Kobayashi 1943 — *Calodiscus* Howell tentatively synonymous p. 117, *B. troyensis* K. text-fig. 41 (5), **Hupé.**

Brogniartia [? recte *Brongniartella*] *brogniarti* p. 35, **Choubert.**

Brongniartella vertical range Chart 2, **Twenhofel et al.**

Bronteidae Goldf. discussed p. 43, **Weber (1).**

Bronteus Goldfuss 1843 a synonym of *Scutellum* Pusch 1833 p. 65, **Přibyl (2).**

Bronteus barrandii see *Scutellum barrandi.*

Bronteus (*Eobronteus*) *bifurcatus* **sp. n.** p. 44 pl. vii fig. 16 Ordovician (Upper) U.S.S.R. (Turkestan), **Weber** Monogr. Paleont. S.S.S.R. **69** 1948.

Bronteus romanovskii **sp. n.** Ordovician (Upper) p. 44 pl. vii figs. 17–23 text-fig. 16, *B.* aff. *partschi* Barr. [no aff. on pl. expl.] p. 45 pl. vii figs. 24, 27, *B. kolovae* **sp. n.** [for *B.* aff. *andersoni* of Kolova 1936] Ordovician (Middle) U.S.S.R. (Turkestan) p. 46 pl. viii fig. 35, **Weber** Monogr. Paleont. S.S.S.R. **69** 1948.

Bronteus romanovskii Web. p. 51, **Keller & Lisogor.**

Bumastides **gen. n.** [Nileidae] p. 49, *B. bedpakensis* **sp. n.** p. 49 pl. viii figs. 12–16 text-fig. 19 a-d Ordovician (Lower) U.S.S.R. (Turkestan), **Weber** Monogr. Paleont. S.S.S.R. **69** 1948.

Bumastides bedpakensis Web. p. 57, **Keller & Lisogor.**

Bumastus Murchison emend. Raymond 1916—*Thomastus* **gen. n.** may be treated as a subgenus p. 23, **Öpik.**

Bumastus-group of Illaenidae taken to include *Bumastus* Murchison 1839, *Illaenoides* Weller 1907, and *Goldillaenus* Schindewolf 1924 p. 546; *Actinolobus* Eichwald 1857 excluded as a synonym of *Illaenus* Dalman 1827 p. 573, **Jaanusson.**

Bumastus bellevillensis Raymond & Narraway p. 37, **Sinclair.**

Bumastus holei and *B.* cf. *h.* Foerste p. 51, **Keller & Lisogor.**

Bumastus ioxus (Hall) specimen of Ruedemann (1916 pl. 34 fig. 8—as *Illaenus ioxus*) in N.Y. State Museum p. 502, **Kilfoyle.**

Bumastus nudus Ang. p. 40 pl. vii figs. 3–5, *B. maccallumi* Salt., *B. sphaericus* **sp. n.** for *B. m.* of Weber 1928 *partim* [pl. 22 fig. 3 refigured] Ordovician (Upper) U.S.S.R. p. 40 pl. vii fig. 6, *B.* cf. *holei* Foerste pl. vii figs. 7–9, *B.* cf. *holei* (?) p. 41 pl. vii fig. 10, *B.* cf. *milleri* Bill. pl. vii fig. 11, *B. ?* sp. ind. 1 [*B.* sp. on pl. expl.] p. 42 pl. vii fig. 12, *B.* sp. 2 [*B.* sp. *?* on pl. expl.] pl. vii fig. 13, *B. ? Illaenus ?* sp. ind. 3 text-fig. 14, *B. ?* sp. 4 text-fig. 15, *B. ?* sp. 5 [no query on pl. expl.] pl. vii fig. 14 Ordovician U.S.S.R., **Weber** Monogr. Paleont. S.S.S.R. **69** 1948.

Burlingioidae see Ptychoparioidae.

Burnetia recorded p. 51, **Hanson (1).**

Buttsia Wilson 1951 discussed and referred to Catillicephalidae p. 606, *B. drabensis* W. text-fig. 2*c* (3 drawings), **Rasetti (2).**

Calliops Delo 1935 referred to Chasmopsidae **subfam. n.** p. 833, **Pillet.**

Calliops brongniarti (Portlock) for *Phacops b.* P. 1843 with synonyms *P. dalmanni* and *P. murchisonii* P. 1843 and later synonymy p. 685 pl. iv figs. 34–38, **Tripp.**

Calliops declivis recorded p. 274, *C. strasburgensis* p. 286, B. N. Cooper *in* **Twenhofel et al.**

? Calliops pichilus **sp. n.** Ordovician Argentina p. 77 text-fig. 8, **Rusconi** Rev. Mus. Hist. nat. Mendoza **7** 1–4 1954.

Calmonia Clarke 1913 discussed and referred to Acastinae p. 826, **Pillet.**

Calmonia ocellus (Lake) 3 specimens of Clarke (1913 pl. 5 figs. 10; 11, 12; 13, 14, 15) in N.Y. State Museum p. 502, **Kilfoyle.**

Calmoniinae Delo 1935 if retained should be restricted to *Calmonia* Clarke 1913 and *Pennaia* C. 1913 p. 826, **Pillet.**

Calodiscus Howell [1935] possibly synonymous with *Brevidiscus* Kobayashi 1943 p. 117, **Hupé.**

Calybole see *Cyrtosymbole.*

Calymenacea for Calymenidae and Homalonotidae, referred to Opisthoparia p. 19, **Přibyl (2).**

Calymene in metamorphic rock (after Lacroix) p. 20 text-fig. 5, **Pavlovski & Frolova.**

Calymene (*Calymene*) *beyeri* **sp. n.** [nom. nud. 1952] Silurian (Upper) Germany (Rhineland) p. 18 pl. ii figs. 18–24 text-fig. 7a, b, *C.* (*C.*) *neointermedia* **sp. n. (nom. n.** for *C. intermedia* Lindström 1885 *non* Münster 1840) lectotype chosen p. 19 *n*, *C.* (*C.*) *beyeri ?* from England (Shopshire) p. 19 pl. ii figs. 25–26, *C.* sp. for *C. blumenbachi* of Barrois et al. 1922 from Liévin p. 20, **R. & E. Richter** Abh. senckenb. naturf. Ges. No. 488 1954.

Calymene aff. *birmanica* Reed p. 63 pl. x figs. 26–28, **Weber (1).**

Calymene (*Calymene*) cf. *blumenbachi* Brongniart recorded, *C.* (*Colpocoryphe*) so referred p. 30, **Přibyl (2).**

Calymene incerta p. 35, **Choubert.**

Calymene niagarensis Hall specimen of Clarke & Ruedemann (1903 pl. 21 fig. 12) in N.Y. State Museum p. 503, **Kilfoyle.**

Calymene niagarensis Hall specimen of Hall & Whitfield (1875 pl. 6 figs. 14–15) at Univ. of California p. 307, **Peck & McFarland.**

Calymene (*Diacalymene*) *rhenana* Kegel p. 12, **Kegel.**

Calymene senaria et vars. see *Flexicalymene senaria.*

Calymene tristani Brong. *pars* for *Neseuretus ramsayensis* Hicks 1873, *C.* spp. for *N. ? elongatus* H., *N. quadratus* H. and *N.* sp. H. [quae vide] pp. 39–40, **Jackson.**

Calymenidae discussed p. 63, **Weber (1).**

Calymenidae referred to Cheiruroidae p. 196 text-fig. 2, **Whittington (4).**

Calymenidae see Bathycheilinae **subfam. n.**

Calyptaulax Cooper 1930 referred to Eomonoracheinae **subfam. n.** p. 833, **Pillet.**

Camaraspis cushingi (Reudemann) for *Agraulos cushingi* R. 1916 lectotype (pl. 30 figs. 2, 4) and paratype, and *C. ruedemanni* Resser 1942 holotype in N.Y. State Museum p. 503, **Kilfoyle.**

Camaraspis hemisphericus p. 80, **Thiel.**

Camaraspis plana, *C. convexa* p. 861 *ff.*, *C.* sp. p. 879 *ff.*, **Berg.**

Cancapolia **gen. n.** [no family assigned], *C. proa* **sp. n.** Cambrian (Upper) Argentina p. 54 text-fig. 28, **Rusconi** Rev. Mus. Hist. nat. Mendoza **7** 1–4 1954.

Caphyra Barrande 1846 (*non* Guérin-Ménévil 1832) a synonym of *Amphitryon* Hawle & Corda 1847 p. 26, **Přibyl (2).**

Carnicia see *Drevermannia.*

Carolinites Kobayashi referred to Komaspinae p. 38, *Dimastocephalus* Stubblefield accepted as a synonym p. 23, *C. genacinaca* Ross pl. vi figs. 3 a-b, **Kobayashi.**

Catillicephala Raymond 1938 discussed, *C. impressa* (Rasetti) text-fig. 2 *b* (5 drawings), Shaw's 1952 opinion that *C. ovoides* (Raymond) and *C. rotunda* (Rasetti) are synonyms of *C. lata* (Raymond) not upheld (although two former spp. may be synonymous) p. 604, **Rasetti (2).**

Catillicephalidae Raymond 1938 taken to include *Distazeris* Raymond, *Pemphigaspis* Hall, *Catillicephala* R., *Madarocephalus* Resser, *Buttsia* Wilson, *Stenochilina* Ulrich, *Triarthropsis* U., *Theodenisia* Clark p. 601, relations to [presumed ancestral] Solenopleuridae p. 600, **Rasetti** (2).

Cayastaia **gen. n.** [no family assigned], *C. flexuosa* **sp. n.** Cambrian (Upper) Argentina p. 46 pl. i fig. 10, **Rusconi** Rev. Mus. Hist. nat. Mendoza 7 1–4 1954.

Cedaria aff. *C. gaspensis* Rasetti 1946 p. 269 pl. xxiv fig. 20, *C.* sp. p. 260, **Wilson** (1).

Cedaria puelchana **sp. n.** Cambrian (Upper) Argentina p. 52 pl. iv figs. 9–11, **Rusconi** Rev. Mus. Hist. nat. Mendoza 7 1–4 1954.

Ceratocephala Warder 1838—*Trapelocera* Hawle & Corda 1847 and *Bounyongia* Etheridge & Mitchell 1917 synonyms p. 31, **Přibyl** (2).

Ceratocephala Warder 1838 discussed and referred to Odontopleuridae, *Onchaspis* [or *Onychaspis*] Raymond 1925 a synonym p. 53, *C. laciniata* **sp. n.** p. 54 pl. vi figs. 1–17, pl. vii figs. 1–20, pl. viii figs. 1–11, pl. ix figs. 1–4, text-figs. 1, 13–15 (reconstructions), 16 (young stages), *C. triacantheis* **sp. n.** p. 59 pl. xxv figs. 1–43, pl. xxvi figs. 1–17 Ordovician (Middle) U.S.A. (Va), *C. confragra* (R.) 1925 holotype figured may be conspecific with *C. l.* p. 60 pl. vi fig. 18, development of *C.* p. 60, **Whittington & Evitt** Mem. geol. Soc. Amer. No. 59 1954.

Ceratocephala (*Ancyropyge*) see *Ancyropyge*.

Ceratocephala robinia Clarke hypotype and casts of cotypes (1908 pl. 3 figs. 9, 11, 10) in N.Y. State Museum p. 504, **Kilfoyle.**

Ceratocephala cf. *verneuili* (Barr.) p. 16, **Kegel.**

Ceratocephala vesiculosa (Beyrich) p. 37, *C.* sp. p. 11, **Erben.**

Ceratocephala sp. indet. listed p. 11, **Öpik.**

Ceratocephalidae — separation from Odontopleuridae not maintained p. 52, **Whittington & Evitt.**

Ceratonurus krejčii (Novák) p. 156, **Prantl & Přibyl.**

Ceratonurus selcanus (Roem.) listed p. 93, **Erben.**

Ceratopygidae referred to Asaphoidae text-fig. 2, **Whittington** (4).

Ceraurinella Cooper 1953 referred to Cheirurinae and discussed, may include spp. referred by Barton to *Ceraurinus* [quod vide] p. 62, *C. typa* C. 1953 p. 63 pl. x figs. 1–14, pl. xi figs. 1–25, pl. xii figs. 1–31, pl. xiii figs. 1, 3, text-figs. 2–4, 17 (reconstruction), *C. chondra* **sp. n.** Ordovician (Middle) U.S.A. (Va) p. 66 pl. xxvi figs. 18–47, pl. xxvii figs. 1–41, pl. xxviii figs. 1–30, development of *C. t.* and *C. c.* p. 68, **Whittington & Evitt** Mem. geol. Soc. Amer. No. 59 1954.

Ceraurinus Barton 1913 considered insecurely founded, suggested that use of name be discontinued, some of spp. referred may belong to *Ceraurinella* Cooper 1953 p. 63, **Whittington & Evitt.**

Ceraurinus craigensis **sp. n.** Ordovician (Middle) Britain (Scotland) including probably *Cheirurus gelasinosus* Salter 1851 (*non* Portlock) p. 675 pl. iii figs. 33–46, *C. gelasinosus* for *Amphion g.* Portlock 1843 p. 677, **Tripp** Trans. roy. Soc. Edinb. 62 1954.

Ceraurus see Gen. et sp. ind. 19.

Ceraurus dentatus Raymond & Barton p. 37, **Sinclair.**

Ceraurus ruedemanni Raymond 1916 holotype and 3 paratypes in N.Y. State Museum p. 505, **Kilfoyle.**

Ceraurus ? sp. p. 66 pl. x fig. 34, **Weber** (1).

Chancia n. sp. [undescr.] p. 1043, **Shaw** (2).

Chariocephalus Hall referred to Komaspinae p. 37, *C. whitfieldi* H. pl. vi figs. 6 a-b; the following Resser 1942 spp. of *C.* referred to *Dartonaspis* — *affinis, agrarius, angustatus, badgerensis, bellus, bulla, graciliensis* [sic], *magnus, montis, tenerus, teres, ulrichi, wichitaensis; C. burlingi* R. 1942 to *Irvingella, C. tumifrons* Hall & Whitfield to *Irvingellina*; *C. gibbsi* for *Conocephalites g.* Whitfield *partim* pp. 40–41, **Kobayashi.**

Chariocephalus recorded p. 19, **Hanson** (2).

Chariocephalus whitfieldi p. 877, **Berg.**

Chasmopinae **subfam. n.** see Chasmopsidae.

Chasmops McCoy 1849 referred to Chasmopsidae **subfam. n.** p. 833, **Pillet.**

Chasmops McCoy 1849 Estonian forms discussed : *C. nasuta* Schmidt, *C. praecurrens* S. p. 399, *C. odini* (Eichwald), *C. tallinnensis* Öpik, *C. o.* var. *itferensis* S. p. 400, *C. wrangeli* S. p. 401, *C. emarginata* S. [for *C. bucculenta* var. *e.* S.] p. 402 pl. ii figs. a, ō, text-fig. 1, *C. genuina* S. [for *C. b.* var. *g.* S.] p. 403, [*C. bucculenta* (Sjögren) pl. ii figs. B, r, not recorded from Estonia, *C. b.* of Schmidt 1907 referred to *C. e.* and *C. g.*], *C. marginata* S. p. 404, *C. mutica* S. p. 405, *C. wenjukowi* S., *C. maxima* S. p. 406 pl. i fig. 9 text-fig. 2 *b*, *C. brevispina* S., *C. musei* Ö. p. 407 pl. i figs. 4–6, *C. inge* **sp. n.** Ordovician (Middle) Estonia p. 407 pl. i figs. 1–3, *C. macrourus* (Sj.) p. 409 pl. i figs. 7–8 text-fig. 2 *a*, *C. wesenbergensis* S., *C. eichwaldi* S. p. 412, **Rõõmusoks** Loodus. Seltsi Juubel. 1953.

Chasmopsidae [sic] **subfam. n.** [Pterygometopidae] for *Chasmops* McCoy 1849 and *Calliops* Delo 1935 p. 833, **Pillet** Bull. Soc. géol. Fr. (6) **3** 9 1954.

Chaunoproetus palensis (Richter 1913) of which *Drevermannia ?* (*Carnicia*) *carnica* (R. 1913) is a synonym [based on association of cephalon and pygidium] p. 38 pl. i figs. 8–9, **Pfeiffer.**

Cheiruridae see Acanthoparyphinae **subfam. n.**

Cheiruridarum gen. ind. sp. 1 (*Cyrtometopus ?* sp.) p. 75 pl. xi fig. 26, sp. 2 (*Cheirurus ?* sp.), sp. 3 (*C.* sp.) p. 76 pl. ix fig. 21 Ordovician (Middle and Upper) U.S.S.R., **Weber** Monogr. Paleont. S.S.S.R. **69** 1948.

Cheiruroidae taken to include Cheiruridae, Encrinuridae, Pliomeridae, Phacopidae, Homalonotidae, Calymenidae p. 196 text-fig. 2, Cheiruroidae may constitute an order p. 198, **Whittington (4).**

Cheiruroides Kobayashi 1935 referred to Palaeoleninae p. 154, *C. orientalis* Resser & Endo reconstruction text-fig. 74 (2), **Hupé.**

Cheirurus gelasinosus Salter 1851 (*non* Portlock) may belong to *Ceraurinus craigensis* **sp. n.** p. 677, **Tripp.**

Cheirurus (*C.*) *insignis* Beyr. p. 130, *C.* (*Crotalocephalus*) *sternbergii* Barr., *C.* (*Cr.*) *gibbus* Beyr. p. 144, **Prantl & Přibyl.**

Cheirurus niagarensis (Hall) specimen of Ruedemann 1916 (pl. 34 fig. 9) in N.Y. State Museum p. 505, **Kilfoyle.**

Cheirurus (*Crotalocephalus*) *pauper brevispinosus* Erben p. 23, **Kegel.**

Cheirurus quadratus **sp. n.** p. 88 pl. iii figs. 2–5, *C. radiatus* **sp. n.** p. 90 pl. iii figs. 6–7 Ordovician (Middle) U.S.S.R. (Kazakhstan), **Keller & Lisogor** Trav. Inst. géol. U.R.S.S. **154** 1954.

Cheirurus (*C.*) *quenstedti* Barrande a synonym of *C.* (*C.*) *squarrosus* Zenker p. 32, **Přibyl (2).**

Cheirurus (*Crotalocephalus*) *sternbergi s.* (Boeck), *C.* (*C.*) *pauper brevispinosus* Erben listed pp. 92–97, *C.* sp. p. 5, **Erben.**

Cheirurus weberi Lomovizkaya p. 65 pl. x figs. 35–36, *C.* sp. (cf. *C. clasoni* Törnq.) pl. x fig. 33 text-fig. 30 ; *C.* sp. and *C. ?* sp. see Cheiruridarum gen. ind., **Weber (1).**

Chilonorria Rusconi referred to Corynexochidae, *C. zulupensis* R. p. 24 pl. ii fig. 2, *C.* cf. *perlottii* R. p. 55, **Rusconi (1).**

Chomatopyge **gen. n.** [Dimeropygidae] for type *C. falcata* **sp. n.** p. 49 pl. v figs. 1–27 text-fig. 12 (reconstructions), *C. marginifera* **sp. n.** p. 51 pl. xxiv figs. 40–48 Ordovician (Middle) U.S.A. (Va), **Whittington & Evitt** Mem. geol. Soc. Amer. No. 59 1954.

Clavaspidella recorded p. 13, **Hanson (2).**

Clelandia vertical range Chart 2 **Twenhofel et al.**

Clelandia parabola (Cleland) p. 90 pl. iv fig. 11 [holotype refigured], **Fisher.**

Clevelandella recorded p. 51, **Hanson (1).**

Cliffia Wilson 1951 referred to Acrocephalitinae p. 445, **Poulsen.**

Coignouina see *Otarion.*

Colpocoryphe Novák *in* Perner 1918 considered a subgenus of *Calymene* p. 30, **Přibyl (2).**

Comura see *Asteropyge.*

Conaspis parvafrons, C. tumidus, C. perseus p. 877 *ff.*, *C.* sp. p. 880, **Berg.**

Conaspis perseus p. 80, **Thiel.**

Condylopyge Hawle & Corda 1847 —*Paragnostus* Jaekel 1909 a synonym p 33, **Přibyl (2).**

Conocephalites gibbsi Whitfield *partim* referred to *Chariocephalus* p. 40, **Kobayashi.**

Conocephalites ? quadratus Whitfield 2 syntypes (1880 pl. 1 figs. 16 ?, 15) at Univ. of California p. 307, **Peck & McFarland.**

Conocoryphe coronata Hicks 1872 (*non* Barrande) [=*Ctenocephalus spinatus* Lake] holotype in Manchester Museum [not at Cambridge]; *C. homfrayi* (Salter MS) H. 1872 counterpart of holotype in Manchester, referred to *Ptychoparia* p. 35, **Jackson.**

Conocoryphe heberti, C. sulzeri p. 35, **Choubert.**

Conocoryphidae see Genus and species undet.

Conoparia Hawle & Corda 1847 a synonym of *Otarion* Zenker 1833 p. 50, **Přibyl (2).**

Conoparia see *Cyphaspis.*

Coosella recorded p. 51, **Hanson (1).**

Coosella convexa **sp. n.** Cambrian (Upper) Argentina p. 51 pl. iv figs. 7, 8, **Rusconi** Rev. Mus. Hist. nat. Mendoza **7** 1–4 1954.

Coosella vulgaris Tasch referred to *Welleraspis* p. 601, **Rasetti (2).**

Coosella sp. listed p. 260, **Wilson (1).**

? Coosia huentotiana Rusc. pp. 35, 44 pl. iii fig. 4 text-fig. 8, **Rusconi (1).**

Coosia pernamagna **sp. n.** Cambrian (Upper) U.S.A. (Texas) p. 267 pl. xxiv figs. 1, 2, 7, 10, **Wilson** J. Paleont. **28** 3 1954.

Corbinia Walcott 1925 probably a synonym of *Angelina* Salter 1859 p. 278, **Wilson (1).**

Cordania Clarke 1892 referred to Otarionidae, *C. rara* **sp. n.** p. 124 pl. vi fig. 3, *C.* sp. *A* p. 125 pl. vi fig. 4 Devonian (Middle) U.S.A. (Mich.), **Stumm** Contr. Mus. Geol. Univ. Mich. **10** 1953.

Cordania becraftensis Clarke 1908 hypotype (pl. 9 fig. 11), and *C. gasepiou* C. 1907 holotype and cast of hypotype (1908 pl. 9 fig. 9) in N.Y. State Museum p. 506, **Kilfoyle.**

Cornuproetus see *Proetus.*

Cornuproetus calhounensis Cooper & Cloud 1938 referred to *Proetus* (*Crassiproetus*) **subgen. n.** p. 111, **Stumm (1).**

Cornuproetus lepidus (Barr.) p. 142, **Prantl & Přibyl.**

Coronura Hall & Clarke 1888 referred to Monorakeidae (tentatively to Coronurinae **? subfam. n.**) p. 835, **Pillet.**

Coronura aspectans (Conrad) with which *Asaphus diurus* Green may be conspecific p. 204 pl. i fig. 1, pl. ii figs. 1–2, *C. helena* (Hall) for *Dalmania h.* H. 1861 excluding Hall 1876 pl. 13 figs. 11, 14 [probably *C. a.*] p. 205 pl. ii fig. 4, *C.* sp. aff. *C. aspectans* p. 206 pl. ii fig. 3, **Stumm (3).**

Coronurinae **? subfam. n.** [Monorakeidae] erected tentatively to include *Coronura* Hall & Clarke 1888, *Corycephalus* H. & C. 1888, *Odontocephalus* Conrad 1840, & ? *Anchiopella* Reed 1907 p. 835, **Pillet** Bull. Soc. géol. Fr. (6) **3** 9 1954.

Corrugatagnostus see *Geragnostus.*

Corycephalus Hall & Clarke 1888 referred to Monorakeidae (tentatively to Coronurinae **? subfam. n.**) p. 835, **Pillet.**

Corydocephalus Corda 1847 discussed, *C. törnquisti* Gürich p. 61 pl. ix fig. 23, **Weber (1).**

Corydocephalus Hawle & Corda 1847 a synonym of *Trochurus* Beyrich 1845, *C. flabellatus* H. & C. a synonym of *T. speciosus* B. p. 70, **Přibyl (2)**.

Corynexochidae — Upper Cambrian *Catillicephala, Madarocephalus, Buttsia* and *Theodenisia* considered not related to family, *Acheilops* may also be unrelated p. 611, **Rasetti (2)**.

Corynexochides sp. indet. p. 1043, **Shaw (2)**.

Corynexochoidae general discussion and constituent families p. 159 *ff.*, **Hupé**.

Corynexochoidae may constitute an order p. 198, **Whittington (4)**.

Crassiproetus **subgen. n.** see *Proetus*.

Crepicephalidae see *Nasocephalus* **gen. n.**

Crepicephalus recorded p. 51, **Hanson (1)**.

Crithias Corda 1847 a synonym of *Sao* Barrande 1846 p. 446, **Poulsen** [also p. 64 **Přibyl (2)**].

Croixana bipunctata p. 877, **Berg.**

Cromus Barrande 1850 a subgenus of *Encrinurus* Emmrich 1844 p. 41, **Přibyl (2)**.

Crotalocephalus see *Cheirurus*.

Crotalurus Volborth genus and affinities discussed pp. 51–53, *C. ? strigatus* (Weber) referred to *Glaphurina* p. 54, **Weber (1)**.

Crusoia Walcott 1924 referred tentatively to Solenopleurinae p. 444, **Poulsen.**

Cryphaeus ? allardycae see *Asteropyge ? allardycae.*

Cryphaeus atavus Schmidt 1907 type of *Acaste* (*Acastava*) **subgen. n.** [quod vide] p. 20, *C. intermedia* Kegel 1913 also referred to *A.* (*Acastava*), *C. michelini* of Barrois et al. 1922 referred *partim* to *A.* (*Acastella*) cf. *heberti* p. 23, *partim* to *A.?* (*A.?*) *artesia* **sp. n.** p. 29, and *partim* to *Asteropyge* (*Rhenops ?*) sp. *M* p. 32, **R. & E. Richter (1)**.

Cryphaeus barrandei Oehlert 1889 type of *Asteropyge* (*Metacanthina*) **subgen. n.** p. 830, **Pillet.**

Cryphina Oehlert 1889 referred to Asteropyginae, and divided into *C.* (*Cryphina*) for *C.* (*C.*) *andegavensis* O. 1889 text-fig. 2a, and *C.* (*Gourdonia*) **subgen. n.** for type *Dalmanites gourdoni* Barrois 1883 p. 832 text-fig. 2b, **Pillet** Bull. Soc. géol. Fr. (6) 3 9 1954.

Cryphina gdoumontensis listed p. 56, *C. ? g.* listed from England (Missenden) [tentatively including *? Dalmanites* sp. Straw 1933] p. 52 *n*, **R. & E. Richter (1)**.

Cryphops see *Phacops*.

Cryptolithoides ulrichi Whittington 1941 p. 614, **Whittington (3)**.

Cryptolithus Green 1832—*Tetrapsellium* Hawle & Corda 1847 a synonym p. 33, **Přibyl (2)**.

Cryptolithus, C. bellulus vertical range Chart 2, **Twenhofel et al.**

Cryptolithus bellulus (Ulrich) & *C. lorrainensis* Ruedemann hypotypes of Ruedemann (1926 pl. 21 figs. 1, 2, 4, 5) and Whittington (1941 pl. 5 figs. 22, 26), *C. tessellatus* Green 9 hypotypes of Ruedemann 1916 and 1926 in N.Y. State Museum p. 507, **Kilfoyle.**

Cryptolithus empozadensis Rusc. p. 71 text-figs. 1–2, *C. stelarusconii* **sp. n.** Ordovician Argentina p. 73 text-fig. 7, **Rusconi** Rev. Mus. Hist. nat. Mendoza 7 1–4 1954.

Cryptolithus terryi Leith 1938 referred to *Onnia* [quod vide], **Whittington (5)**.

Cryptolithus tesselatus Green p. 260 *ff.*, **Lattman.**

Cryptolithus tesselatus p. 80, **Fisher.**

Cryptolithus sp. Beyer 1941 referred to *Cyclopyge* (subg. ?) sp. indet. p. 14, **R. & E. Richter (1)**.

Cryptolithus fragments p. 112, **Belyea.**

Cryptonymus Eichwald 1840 (*non* 1825) a synonym of *Encrinurus* Emmrich 1844 p. 40, **Přibyl (2)**.

Ctenocephalus barrandii Hawle & Corda 1847 a synonym of *C. coronatus* (Barrande 1846) p. 34, **Pribyl (2)**.

Ctenocephalus coronatus p. 35, **Choubert.**

Ctenocephalus spinatus Lake see *Conocoryphe coronata* Hicks 1872 (*non* Barrande).

Cuyanaspis empozadensis (Rusc.) pp. 37, 42 pl. iii figs. 5–7 text-figs. 20, 24 (reconstruction), *? C. expansus* **sp. n.** Cambrian (Upper) Argentina p. 42 pl. iii fig. 8, **Rusconi** Rev. Mus. Hist. nat. Mendoza **7** 1–4 1954.

Cybele michelli Reed 1914 referred to *Atractopyge* p. 679, **Tripp.**

Cybele planifrons **sp. n.** Ordovician (Lower) U.S.S.R. (Turkestan) p. 64 pl. x fig. 20 text-fig. 29, *C. weberi* Kolova [refigured] p. 64 pl. x figs. 23–24, *C.* sp. 1 (*C. bellatula* Dalm. ?) p. 65 pl. x figs. 21–22, *C.* sp. ind. 2 pl. x fig. 25, **Weber** Monogr. Paleont. S.S.S.R. **69** 1948.

Cybelid hypostome p. 681 pl. iv fig. 12 [may belong to *Atractopyge killochanensis* **sp. n.**], **Tripp.**

Cybelidae Holliday 1942 a synonym of Encrinuridae Angelin 1854 p. 20, **Přibyl (2).**

Cybeloides spinifera **sp. n.** Ordovician (Middle) Britain (Scotland) p. 679 pl. iv figs. 6–11, **Tripp** Trans. roy. Soc. Edinb. **62** 1954.

Cyclagnostidae [recte Cyclopagnostidae] Howell 1937 — *Kormagnostus* Resser 1938 referred p. 123, **Hupé.**

Cyclopagnostidae see Cyclagnostidae.

Cyclopyge Hawle & Corda 1847—following considered synonyms *Microparia* H. & C., *Selenoptychus* H. & C., *Aeglina* Barrande 1852 p. 34, **Přibyl (2).**

Cyclopyge Corda 1847 discussed, *C.* (*Cyclopyge*) with synonym *Phylacops* Cooper & Kindle 1936 p. 12, *C.* (*C.*) *rediviva* (Barrande) Bohemian specimens described p. 12 *n*, tentative selection of lectotype p. 13, *C.* (*C.*) *r. umbonata* (Angelin 1854) *?* including *Aeglina r.* of Barrande 1872 *partim* (pl. 14 fig. 11) p. 12 pl. i fig. 1; *C.* (*Pricyclopyge*) **subgen. n.** p. 12 for type *Aeglina prisca* B. 1872 p. 13 pl. i fig. 2, *C.* (*P.*) *binodosa* (Salter 1864) and *C.* (*P.*) *synophthalma* (Klouček 1917) so referred; *C.* (*Microparia*) C. 1847 discussed p. 12, *C.* (*M.*) *speciosa* C. 1847 *?* p. 13 pl. i fig. 3, *C.* (*M.?*) *illaenoides* (R. & E. Richter 1937) p. 13 and *C.* (*M.*) *kloučeki* (R.) so referred; *C.* (*Symphysops*) Raymond 1925, *C.* (*Psilacella*) Whittard 1952 and *C.* (*Ellipsotaphrus*) W. 1952 so referred p. 12; *C.* (subg. ?) sp. indet. p. 13, *C.* (subg.?) sp. indet. for *Cryptolithus* sp. Beyer 1941 p. 14, **R. & E. Richter** Abh. senckenb. naturf. Ges. No. 488 1954.

Cyclopyge djebaglica Kolova see *Symphysops ?*

Cyclopygidae referred to Asaphoidae text-fig. 2, **Whittington (4).**

Cyphaspides n. sp. [ex aff. *cerberus* (Barr.)] [? Erben 1952] listed p. 93, **Erben.**

Cyphaspis Burmeister 1843 [so ascribed] a synonym of *Otarion* Zenker 1833 p. 50, **Přibyl (2).**

Cyphaspis (*Conoparia*) *burmeisteri* (Barr.) p. 7, *C.* cf. *convexa* Corda p. 11, **Přibyl (1).**

Cyphaspis slocomi see *Bathyurus ?* sp.

Cyphaspis ? sp. ind. p. 51 pl. viii fig. 18; *C. ? strigata* Weber 1926 referred to *Glaphurina* p. 54, *C. ? harknessi* Reed tentative reference to *G.* p. 88 *n*, **Weber (1).**

Cyphoproetus see *Proetus.*

Cyphoproetus ? facetus **sp. n.** p. 671 pl. iii figs. 13–20 Ordovician (Middle) Britain (Scotland), *C. ? bellus* (Cooper & Kindle) so referred p. 672, **Tripp** Trans. roy. Soc. Edinb. **62** 1954.

Cyrtometopinae Öpik 1937 discussed, *Nieszkowskia* referred to Acanthoparyphinae **subfam. n.** p. 70, **Whittington & Evitt.**

Cyrtometopus ? sp. ind. p. 70 pl. xi fig. 10 text-fig. 37, *C. ?* sp. see Cheiruridarum gen. ind. sp. 1, **Weber (1).**

Cyrtosymbole (*Calybole*) *antedistans* R. & E. Richter 1926 p. 33, *C.* (*Waribole*) *avita* (R. & E. R.) 1919 p. 34, *C.* (*W.*) *wagneri* **sp. n.** Devonian (Upper) Germany (Thüringia) p. 34 pl. i figs. 3–4, *C. nepia* R. & E. R. 1926 p. 35, *C.* sp. p. 38 pl. i fig. 10 *pars*, *C.* (*Macrobole*) *drewerensis longisuta* R. & E. R. 1951 p. 51, *C.* (*M.*) *doudecimae* [recte *duode-*

cimae] R. & E. R. 1951 p. 51 pl. iv fig. 5, *C.* (*M.*) *hercules* R. & E. R. 1951 p. 52, *C.* spp. p. 61, **Pfeiffer** Beih. Z. Geol. No. 11 1954.

Dalmanites see *Odontochile*.

Dalmanites see *Synphoria*.

Dalmanites see *Synphoroides*.

Dalmanites acacia Schwarz 1906 type of *Paradalmanites* **gen. n.** p. 828, *D. gourdoni* Barrois 1883 type of *Cryphina* (*Gourdonia*) **subgen. n.** p. 832, *D.* (*Synphoria*) *stemmatus* Clarke 1900 type of *Neosynphoria* **gen. n.** p. 833, **Pillet.**

Dalmanites anchiops of Hall & Clarke 1888 *partim* (pl. 10 fig. 1) referred to *Anchiopsis tuberculatus* **sp. n.** p. 211, **Stumm (3).**

Dalmanites athamas **sp. n.** Silurian (Lower) Australia (Victoria) p. 28 pl. x figs. 88–91 text-fig. 9 (IV), **Öpik** Mem. geol. Surv. Vict. No. 19 1953.

Dalmanites caudatus Brünnich 1781 —*Asaphus longicaudatus* Murchison 1839 a synonym p. 35, **Přibyl (2).**

Dalmanites falklandicus Clarke 1913 4 cotypes, *D. gaveyi* C. 1908 2 cotypes, *D. ? veiti* C. 1908 holotype and 3 paratypes, *D. ulrichi* Katzer 1897 holotype, *D.* spp. Clarke 1909 3 hypotypes etc., *D.* (*Mesembria*) *acacia* (Schwarz) 4 hypotypes etc. of Clarke 1913: all in N.Y. State Museum p. 508 *ff.*, **Kilfoyle.**

Dalmanites hausmanni (Brongn.), *D.* cf. *cristata* Corda p. 10, **Přibyl (1).**

? Dalmanites sp. Straw 1933 may belong to *Cryphina ? gdoumontensis* p. 52 *n*, **R. & E. Richter (1).**

Dalmanitidae Delo 1935 referred to Phacopidea, and classified into Dalmanitinae and Asteropyginae p. 826 *ff.*, **Pillet.**

Dalmanitidae — Acastinae referred p. 38, **R. & E. Richter (1).**

Dalmanitidae gen. ind. listed p. 56, **R. & E. Richter (1).**

Dalmanitina see *Dalmatina*.

Dalmanitina (*Eudolatites*) *aborigenum* **sp. n.** p. 26 pl. x figs. 85–87 text-fig. 9 (III) Silurian (Lower) Australia (Victoria), *D.* s. lato sp. indet. p. 28 pl. x fig. 92, **Öpik** Mem. geol. Surv. Vict. No. 19 1953.

Dalmanitina kegeli R. & E. Richter p. 8, **Kegel.**

Dalmanitinae Reed 1905 discussed and grouped into (i) *Dalmanites* Barrande 1852, *Dalmanitina* R. 1905, *Odontochile* Hawle & Corda 1847, *Eudolatites* Delo 1935, *Zeliskella* [sic] D. 1935; *Probolium* Oehlert 1889, *Schizostylus* D. 1935; *Heliocephalus* D. 1935; (ii) *Proboloides* Clarke 1913, *Dalmanitoides* D. 1935, *Paradalmanites* **gen. n.**; (iii) *Probolops* D. 1935, and *Psychopyge* Termier 1950 p. 826 *ff.*, **Pillet.**

Dalmatina [recte *Dalmanitina*] *proaeva* p. 35, **Choubert.**

Dartonaspis Miller 1936 considered a subgenus of *Irvingella* [quod vide] p. 36; several Resser 1942 spp. of *Chariocephalus* [quod vide] referred to *D.*, *Drumaspis deckeri*, *goodsirensis* (tentatively) and *utahensis* R. 1942 also referred to *D.* pp. 40–41, **Kobayashi.**

Dawsonia Hartt *in* Dawson 1868 emend. Matthew 1896—*Aculeodiscus* Šnajdr 1950 a synonym, *D. dawsoni bohemica* Š. so referred p. 36, **Přibyl (2).**

Deadwoodia recorded p. 51, **Hanson (1).**

Decaulion [sic] Stschegloff 1827 a synonym of *Illaenus* Dalman 1827, *D. brogniartii* S. a nomen dubium p. 562, **Jaanusson.**

Dechenella [Kayser 1880]—*Archegonus* Burmeister 1843 a synonym p. 76, **Přibyl (2).**

Dechenella Kayser 1880 discussed p. 115, *D.* (*Dechenella*) *alpenensis* **sp. n.** Michigan and Ontario p. 116 pl. ii figs. 1–15, *D.* (*D.*) sp. *A* Mich. p. 117 pl. v figs. 1–2, *D.* (*Basidechenella*) *nodosa* **sp. n.** Mich. p. 118 pl. ii figs. 16–20, *D.* (*B.*) *pulchra* **sp. n.** Mich. p. 119 pl. iii figs. 1–8, *D.* (*B.*) *rowi* (Green 1838) p. 120 pl. iii fig. 11, pl. iv figs. 1–2, *D.* (*B.*) *rowi arkonensis* **subsp. n.** Ont. p. 120 pl. iii figs. 9–10, *D.* (*B.*) *reimanni* **sp. n.** Mich. p. 121 pl. v figs. 6–7, *D.* (*B.*) sp. *A* p. 121 pl. v figs. 8–11, *D.* (*B.*) sp. *B* p. 122 pl. v figs. 4–5, *D.* (*B.*) sp. *C*

p. 122 pl. v fig. 3, *D.* (*Monodechenella*) **subgen. n.** for type *Proetus macrocephalus* Hall 1861 p. 123 pl. iv figs. 3–6 U.S.A. (Mich.) Devonian (Middle); *Proetus crassimarginatus* of Hall 1876 *partim* and Hall & Clarke 1888 *partim* [free cheeks] referred to *Dechenella* p. 111, **Stumm** Contr. Mus. Geol. Univ. Mich. **10** 1953.

Dechenella (*Paradechenella*) Richter 1912 discussed p. 216, *D.* (*P.*) *tschernyschewi* R. 1909 p. 220 pl. xiii figs. 1–3, pl. xiv figs. 4–6 (line drawings), *D.* (*P.*) *markovskii* **sp. n.** p. 224 pl. xiii figs. 4–9, pl. xiv figs. 2–3 (line drawings), 13–14 (reconstructions), *D.* (*P.*) *mucronata* **sp. n.** p. 228 pl. xiv fig. 1 (line drawing) Devonian U.S.S.R. (Urals), **Maksimova** Annu. Soc. paléont. russe **14** 1953.

Dechenella (*Eudechenella*) *burmeisteri* Richter plastotypes in N.Y. State Museum p. 624, **Kilfoyle.**

Dechenella (*Dechenella*) *valentini* **sp. n.** Michigan p. 19 pl. iii figs. 1–2, *D.* (*D.*) *planimarginata* (Meek) for *Proetus p.* M. 1871 [including *P. conicus* Grabau 1913] p. 20 pl. iii figs. 8–13, *D.* (*D.*) *welleri* (Stauffer) for *P. w.* S. 1909 holotype refigured p. 21 pl. iii figs. 3–5, *D.* (*D.*) *delphinula* (Hall & Clarke) for *P. d.* H. & C. 1888 p. 21 pl. iii fig. 6, *D.* (*D.?*) *angustifrons* (H.) for *P. a.* H. 1861 lectotype selected and figured [Hall 1876 pl. 20 fig. 1] p. 22 pl. iii fig. 7, *D.* (*D.?*) *halli* **nom. n.** for *P. verneuili* H. 1861 *non* Barrande 1852 p. 23, *D.* (*Basidechenella*) *clara* (H.) for *P. c.* H. 1861 lectotype selected [H. 1876 pl. 20 figs. 12–13], *D.* (*B.*) *canaliculata* (H.) for *P. c.* H. 1861 [doubtfully including H. & C. 1888 pl. 23 figs. 10–11] holotype refigured p. 24 pl. iv fig. 10, *D.* (*B.*) *tumida* (H. & C.) for *P. t.* H. & C. 1888 p. 24 pl. iv fig. 11, *D.* (*B.*) *eriensis* **sp. n.** Ohio p. 24 pl. iv figs. 12–14, *D.* (*B.*) *rowi* (Green) pl. iv figs. 17–18, *D.* (*B*). *r. sanduskiensis* **subsp. n.** Ohio p. 25 pl. iv figs. 15–16 Devonian (Middle) U.S.A., **Stumm** Contr. Mus. Geol. Univ. Mich. **11** 2 1953.

Dechenella (*Dechenella*) *verneuili* (Barrande 1852) p. 16 pl. iii figs. 6–7 text-fig. 8 (2 views), *D.* (*D.*) cf. *verneuili* [possibly chronological var.] p. 17 pl. iii figs. 8–9 text-fig. 9 (2 views), *D.* (*D.*) *polonica* Gürich 1896 p. 17 pl. iii figs. 1–5 text-figs. 10, 11 (each 2 views); *D.* (*Basidechenella*) *kayseri* Richter 1912 p. 20 text-fig. 12 (2 views), *D.* (*B.*) *dombroviensis* (Sobolew 1909) p. 21 pl. ii fig. 8 text-fig. 13, **Kielan.**

Decoroproetus see *Proetus.*

Deissella Howell & Duncan 1939 a synonym of *Bolaspidella* Resser 1937 p. 74, **Palmer (1).**

Delgadella souzai Delgado text-fig. 4, **Teixeira.**

Dellea recorded p. 51, **Hanson (1).**

Deltophthalamus [recte *Deltophthalmus*] Resser 1938 a synonym of *Bolaspidella* Resser 1937 p. 74, **Palmer (1).**

Denckmannites see *Phacopidella.*

Denisia Clark 1924 see *Theodenisia* C. 1948.

Dereimsia Kozlowski 1923 referred to Phacopinae p. 823, **Pillet.**

Deucalion Stschegloff 1827 possibly a synonym of *Illaenus* (*Illaenus*) Dalman 1827 p. 46, **Přibyl (2).**

Diacalymene see *Calymene.*

Diacanthaspis ? elapsus **sp. n.** Ordovician (Middle) Britain (Scotland) p. 663 pl. i figs. 24–29, *D. ? hystrix* (Wyville Thomson) for *Acidaspis h.* W. T. 1857 restr. (*non* pl. 6 fig. 6) [lectotype selected] including *A. lalage* Nicholson & Etheridge 1878 (*non* W. T.) p. 664, **Tripp** Trans. roy. Soc. Edinb. **62** 1954.

Diacoryphe pfeifferi R. & E. Richter 1951 p. 53 pl. iv fig. 4, **Pfeiffer.**

Dianops see *Phacops.*

Dicellocephalus ? expansus Walcott 1884 referred to *Olenoides* [quod vide] p. 63, **Palmer (1).**

Dicranactis Hawle & Corda 1847 a synonym of *Scutellum* Pusch 1833 p. 65, **Přibyl (2).**

Dicranogmus Hawle & Corda 1847 —*Liparges* Gürich 1901 a synonym, *D. simplex* (Barrande 1846) with synonym *D. pustulatus* H. & C. 1847 listed p. 37, **Přibyl (2).**

Dicranopeltinae Phleger 1936 a synonym of Lichinae p. 19, **Přibyl (2).**

Dicranopeltis Hawle & Corda 1847 —*Trachylichas* Gürich 1901, ? *Dicranopeltoides* Phleger 1936 and ? *Raymondarges* P. 1937 listed as synonyms, *Macromuktis* P. 1936 a subgenus of *D.* p. 37, **Přibyl (2).**

Dicranopeltoides Phleger 1936 with query a synonym of *Dicranopeltis* Hawle & Corda 1847 p. 37, **Přibyl (2).**

Dicranurus limenarcha Clarke 1905 holotype in N.Y. State Museum p. 511, **Kilfoyle.**

Digonus see *Homalonotus.*

Dikellocephaloidae see Ptychoparioidae.

Dikellocephalus barabuensis Whitfield 4 syntypes (1882 pl. 4 figs. 8, 9, 10, 6–7), *D. crassimarginatus* W. holotype (1882 pl. 27 fig. 14), *D. eatoni* W. 4 syntypes (1882 pl. 4 figs. 11–13 ? [refigured pl. xxix figs. 1–2], figs. 14–15, fig. 17 [fig. stated to be very idealised], fig. 16), *D. lodensis* W. holotype (1882 pl. 10 fig. 14) and 2 paratypes (1882 pl. 27 figs. 12, 13): all above types at Univ. of California pp. 307–308, **Peck & McFarland.**

Dikellocephalus wahsatchensis Hall & Whitfield referred to *Olenoides* [quod vide] p. 64, *D. quadriceps* H. & W. to *Kootenia* p. 65, **Palmer (1).**

" *Dikelocephalina* " *bohemica* of R. & E. Richter 1927 (*non* Klouček) referred to synonymy of *Hungioides graphicus* **sp. n.** p. 341, **R. & E. Richter (2).**

Dimeropyge Öpik 1937 discussed p. 36, *D. virginiensis* **sp. n.** p. 37 pl. ii figs. 1–24, pl. iii figs. 1–30, text-figs. 5–8 (reconstructions), *D. spinifera* **sp. n.** p. 42 pl. xxii figs. 1–40, pl. xxiii figs. 1–40, text-figs. 9, 10 Ordovician (Middle) U.S.A. (Va); " *Törnquistia* " *parvula* Thorslund and tentatively *T. altifrons* Warburg referred to *D.* p. 37, **Whittington & Evitt** Mem. geol. Soc. Amer. No. 59 1954.

Dimeropygidae Hupé 1953 emend. taken to include *Dimeropyge* Öpik, *Dimeropygiella* Ross, *Törnquistia* Reed, and *Mesotaphraspis* & *Chomatopyge* **genn. n.** p. 35, Törnquistiidae Hupé 1953 a synonym p. 100, **Whittington & Evitt.**

Dimeropygidae referred to Proetoidae text-fig. 2, **Whittington (4).**

Dimeropygiella Ross 1951 referred to Dimeropygidae Hupé p. 35, **Whittington & Evitt.**

Dindymene Hawle & Corda 1847 referred to Encrinuridae (Dindymeninae) **subfam. n.** p. 20, **Přibyl (2).**

Dindymeninae **subfam. n.** [Encrinuridae] for *Dindymene* Hawle & Corda 1847 and *Plasiaspis* Prantl & Přibyl 1949 p. 20, **Přibyl** Knihovna úst. Úst. geol. No. 25 1953.

Dinesus ida Etheridge text-fig. 85, **Hupé.**

Dionide Barrande 1847—*Polytomurus* Hawle & Corda 1847 a synonym p. 38, **Přibyl (2).**

Dionide vertical range Chart 2, **Twenhofel et al.**

Dionididae referred to Trinucleoidae text-fig. 2, **Whittington (4).**

Dipleura dekayi Green hypotype of Hall & Clarke (1888 pl. 4 figs. 4, 5—as *Homalonotus d.*) in N.Y. State Museum p. 511, **Kilfoyle.**

Dipleura dekayi Green p. 129 pl. vi figs. 5–9, **Stumm (1).**

Diplorrhina Hawle & Corda 1847 accepted as a synonym of *Peronopsis* H. & C. p. 60, **Palmer (1).**

Diplorrhina Hawle & Corda 1847 a synonym of *Peronopsis* H. & C. 1847 p. 52, **Přibyl (2).**

Distazeris Raymond 1937 discussed and referred to Catillicephalidae p. 603, *D. acuta* R. text-fig. 1*d*, *D. rasettii* Shaw text-fig. 1*e* (drawing), *Ucebia simplex* R. assigned to genus, **Rasetti (2).**

Ditomopyge cf. *olsoni* (J. S. Williams) text-fig. IV. 3c, **Trueman.**

Dokimocephalus recorded p. 51, **Hanson (1).**

Dolerolenus bornemanni (Meneghini) schematised development text-fig. 65, **Hupé.**

Dorypygidae indet. p. 1037, **Shaw (2).**

Drevermannia (*Eodrevermannia ?*) *nitida* Růžička so referred, *D.* (*E.*) n. sp. [undescr.] p. 39, **Přibyl (2).**

Drevermannia (*Drevermannia*) *schmidti* (Richter) 1913 p. 37 pl. i fig. 7, *D.* sp. *A* Devonian (Upper) Germany (Thüringia) p. 38 pl. i fig. 10 *pars*; *D.* ? (*Carnicia*) *carnica* (R.) a synonym of *Chaunoproetus palensis* (R.) [quod vide] of which it is the cephalon p. 38, *D.* sp. p. 61, **Pfeiffer** Beih. Z. Geol. No. 11 1954.

Drumaspis Resser 1942 referred to Komaspinae p. 36, *D. walcotti* R. pl. vi fig. 9; *D. deckeri*, *D. goodsirensis* (tentatively) and *D. utahensis* R. 1942 referred to *Dartonaspis*, *D. osella* R. 1942 to ? *Taenicephalus* pp. 40–41, **Kobayashi.**

Drumaspis recorded p. 51, **Hanson (1).**

Ductina see *Phacopidella*.

Dysplanus Burmeister 1843 discussed, *D. centrotus* (Dalman) pl. iii figs. 1–5 text-figs. 1, 3C, 7B, 8A, 9C, 15, *D.* aff. *c.* text-fig. 10H, *D. acutigena* [nom. nud.] p. 569, **Jaanusson.**

Dysplanus Burmeister 1843 listed with query as a synonym or homonym of unspecified genus p. 76, **Přibyl (2).**

Eccoptochile Hawle & Corda 1847—*Placoparina* Whittard 1940 with query a synonym p. 39, **Přibyl (2).**

Echinolichas eriopis p. 639, **Oliver.**

Ectenonotus vertical range Chart 2, **Twenhofel et al.**

Ectillaenus Salter 1867 discussed, *Wossekia* Raymond 1916 accepted as a synonym, following spp. of *Illaenus* included in *E.* — ? *perovalis* Murchison 1839, *katzeri* Barrande 1856 text-figs. 3B, 18, *hughesii* Hicks 1875, *beningensis* [sic] Novak 1918, ? *šarkàensis* N. 1918, *zeidleri* B. 1872, *leptopleura* Holm 1882, *parabolinus* N. 1918, ? *aratus* B. 1872, ? *bohemicus* B. 1872, and ? *longifrons* Olin 1906 p. 576, **Jaanusson.**

Ectillaenus Salter 1867 considered a subgenus of *Illaenus*, *Wossekia* Raymond 1916 a synonym p. 46, **Přibyl (2).**

Ehmania recorded p. 15, **Hanson (2).**

Ehmania ? *unispinata* Deiss 1939 p. 33, **Shaw (1).**

Ehmaniella Resser 1937 discussed p. 75, *E. quadrans* (Hall & Whitfield) holotype refigured p. 76 pl. xvii figs. 1–5, **Palmer (1).**

Eldoradia Resser 1935 discussed p. 76, *E. linnarssoni* (Walcott) with synonym *E. lata* R. 1935 (both holotypes refigured) p. 77 pl. xvi figs. 9–10, *E. prospectensis* (W.) for *Ptychoparia* ? *p.* W. 1884 holotype refigured p. 77 pl. xvi fig. 8; *E. dunbari* Lochman 1938 excluded from *E.* p. 76, **Palmer (1).**

Ellipsocephalidae Matthew 1887 discussion, probably ancestral to Paradoxididae p. 153, **Hupé.**

Ellipsocephalinae — *Ferralsia* Cobbold 1935 referred without query p. 154, **Hupé.**

Ellipsocephaloides curtus p. 879 *ff.*, **Berg.**

Ellipsocephalus Zenker 1833 emend. Agassiz 1843 list of Bohemian spp. p. 40, *Protypus* [? *P.* ? *bohemicus*] Pompeckj 1895 referred with query p. 78, **Přibyl (2).**

Ellipsotaphrus Whittard 1952 considered a subgenus of *Cyclopyge* Corda 1847 p. 12, **R. & E. Richter (1).**

Elrathia Walcott 1924 discussed, *E. kingii* (Meek) cotype figured p. 78 pl. xvii fig. 13, *E.* ? *occidentalis* (W.) [referred without query on pl. expl.] for *Ptychoparia o.* W. 1884 holotype figured p. 79 pl. xvii fig. 15, **Palmer (1).**

Elrathia recorded text-fig. 2, **Shaw (1).**

Elvinia — *Parairvingella hamburgensis* Resser 1942 referred tentatively p. 34, **Kobayashi.**

Elvinia recorded p. 51, **Hanson (1).**

Elvinia obliquoensis Rusc. p. 23 pl. ii fig. 1 text-fig. 14, **Rusconi (1).**

Elvinia roemeri p. 862 *ff.*, **Berg.**

Elvinia ruedemanni Resser 1942 holotype and paratypes in N.Y. State Museum p. 625, **Kilfoyle.**

Embolimus spinosa Rominger 1887 taken as the type of *Zacanthoides* Walcott 1888 [quod vide] p. 69, **Palmer (1).**

Encrinurella see *Pliomera*.

Encrinuridae Angelin 1854—Cybelidae Holliday 1942 a synonym p. 20, see Dindymeninae **subfam. n., Přibyl (2).**

Encrinuridae referred to Cheiruroidae p. 196 text-fig. 2, **Whittington (4).**

Encrinurus Emmrich 1844 — *Cryptonymus* Eichwald 1840 (*non* 1825) a synonym, *Cromus* Barrande 1850 a subgenus p. 40, **Přibyl (2).**

Encrinurus cybeleformis Raymond p. 37, **Sinclair.**

Encrinurus empozadensis Rusc. p. 74 text-fig. 3, **Rusconi (2).**

Encrinurus ornatus Hall & Whitfield holotype (1875 pl. 6 fig. 16) at Univ. of California p. 308, **Peck & McFarland.**

Encrinurus praecursor **sp. n.** Ordovician (Middle) Britain (Scotland) p. 681 pl. iv figs. 13–25, **Tripp** Trans. roy. Soc. Edinb. **62** 1954.

Encrinurus variolaris Brongniart 1822 original figured specimen (pl. 1 fig. 3B) not discovered, hypostome described text-figs. 1, 2 (line drawings), **Temple.**

Endogramma Hawle & Corda 1847 a synonym of *Sao* Barrande 1846 p. 64, **Přibyl (2).**

Endymioniidae referred to Trinucleoidae text-fig. 2, **Whittington (4).**

Enneacnemis Corda 1847 a synonym of *Sao* Barrande 1846 p. 446, **Poulsen** [also p. 64 **Přibyl (2)**].

Entomaspidae referred to Harpoidae text-fig. 2, **Whittington (4).**

Eobronteus see *Bronteus.*

Eobronteus sp. p. 668 pl. ii figs. 27–29, **Tripp.**

Eodiscoidae discussed p. 115, Aulacodiscidae form a transition to Agnostoidae p. 117, constituent families p. 115 *ff.*, **Hupé.**

Eodiscoidae — suggested grouping with Agnostoidae as an order p. 198, **Whittington (4).**

Eodrevermannia see *Drevermannia.*

Eoharpes Raymond 1905 discussed p. 157, *E. primus* (Barrande 1872) p. 158 pl. ii figs. 17–18, 28, pl. x fig. 4, *E. benignensis* (B. 1872) lectotype restricted p. 160 pl. ii figs. 19–20, 27, pl. x figs. 1–3, **Prantl & Přibyl.**

Eoharpes Raymond 1905—*Harpina* Novák 1885 [preoccupied] a synonym p. 41, **Přibyl (2).**

Eoharpes ottawaensis (Billings) hypotype of Ruedemann (1912 pl. 9 fig. 1) in N.Y. State Museum p. 512, **Kilfoyle.**

Eoharpes sp. indet. p. 14 pl. i fig. 5, **R. & E. Richter (1).**

Eomonoracheinae **subfam. n.** [Pterygometopidae] to include (i) *Isalaux* Frederickson & Pollack 1952 ; (ii) *Calyptaulax* Cooper 1930, *Eomonorachus* Delo 1935 ; *Synphoroides* D. 1940, *Neosynphoria* **gen. n.**, *Ligometopus* Ulrich & D. 1940, and ? *Philonyx* R. & E. Richter 1952 p. 833, **Pillet** Bull. Soc. géol. Fr. (6) **3** 9 1954.

Eomonorachus Delo 1935 referred to Pterygometopidae (Eomonoracheinae) **subfam. n.** p. 833, **Pillet.**

Erbia sibirica [sic] Schmidt text-fig. 84 (2), *E. granulosa* Lermontova text-fig. 84 (3), **Hupé.**

Erbiopsis grandis Lermontova text-fig. 84 (4), **Hupé.**

Eremiproetus see *Proetus.*

Erinnys venulosa Salter original of Hicks 1872 pl. 6 fig. 5 in Manchester Museum p. 36, **Jackson.**

Eteraspis Resser 1935 considered a synonym of *Asaphiscus* Meek 1873 [quod vide] p. 73, **Palmer (1).**

Euarges Gürich 1901 a synonym of *Acanthopyge* Hawle & Corda 1847 p. 24, **Přibyl (2).**

Eudolatites Delo 1935 discussed and considered a subgenus of *Dalmanitina* [quod vide] p. 27, **Öpik.**

Euloma Angelin 1854 referred to Olenidae (Oleninae) p. 16, **Přibyl (2).**

Eulomina Růžička 1931 referred to Olenidae (Oleninae) p. 16, **Přibyl (2).**

Fallotaspis recorded p. 1818, **Choubert & Hupé.**

Ferralsia Cobbold 1935 referred without query to Ellipsocephalinae p. 154, may form passage to Paradoxididae p. 153, *F. blayaci* C. text-fig. 73 (5), **Hupé.**

Flexicalymene onniensis Shirley 1936 original of pl. 29 fig. 7 in Manchester Museum p. 37, **Jackson.**

Flexicalymene senaria & *F. meeki* vertical ranges Chart 2, **Twenhofel et al.**

Flexicalymene senaria (Conrad) mut. *granulosa* (Foerste) hypotype of Ruedemann 1926 (pl. 20 fig. 8—as *Calymene s. g.*), *F. s.* var. *magnotuberculata* (Ruedemann) holotype & 4 paratypes, *F. s.* mut. *meeki* (F!) hypotype of Ruedemann 1926 (pl. 20 fig. 7): all in N.Y. State Museum p. 512, **Kilfoyle.**

Flexicalymene shirleyi **sp. n.** p. 673 pl. iii figs. 21–28 Ordovician (Middle) Britain (Scotland), **Tripp** Trans. roy. Soc. Edinb. **62** 1954.

Forbesia McCoy 1846 a synonym of *Proetus* p. 59, **Přibyl (2).**

Gaspelichas forillonia (Clarke 1907) holotype and hypotypes in N.Y. State Museum p. 513, **Kilfoyle.**

Geragnostella see *Geragnostus.*

Geragnostus Howell 1935—*Geragnostella* and *Corrugatagnostus* Kobayashi 1939 accepted as subgenera p. 43, **Přibyl (2).**

Geragnostus sp. undet. pl. xxvi figs. 14, 16, *G. rudis* and *G. r.* var. *holmi* recorded p. 252, **Wilson (1).**

" *Gerasaphes ulrichana* " Clarke p. 271, **Lattman.**

Gerastos Goldfuss 1843 a synonym of *Proetus* p. 59, **Přibyl (2).**

Glaphurina Ulrich 1929 referred to Otarionidae, *G. shlygini* **sp. n.** p. 87 pl. iii fig. 1 Ordovician (Middle) U.S.S.R. (Kazakhstan), **Keller & Lisogor** Trav. Inst. géol. U.R.S.S. **154** 1954.

Glaphurina Ulrich discussed, *G.* aff. *lamottensis* U. p. 53 pl. viii figs. 24–26 text-figs. 22a, b, *G. strigata* (Weber) [for *Cyphaspis ? s.* W. 1926 refigured] p. 54 pl. viii figs. 19–21, *G. dulanensis* **sp. n.** Ordovician (Upper) U.S.S.R. (Turkestan) p. 55 pl. viii figs. 22–23; *G. altaicus* see *Glaphurus altaicus*; *Cyphaspis ? harknessi* Reed may belong to *G.* p. 88*n*, **Weber** Monogr. Paleont. S.S.S.R. **69** 1948.

Glaphurus Raymond 1905 referred to Acidaspidae, *G. altaicus* **sp. n.** [referred to *Glaphurina* pl. expl.] p. 63 pl. viii fig. 27 text-fig. 28 Ordovician (Middle) U.S.S.R., **Weber** Monogr. Paleont. S.S.S.R. **69** 1948.

Glaphyraspis Resser 1937 referred tentatively to Acrocephalitinae, *Pinctus* Wilson 1951 a synonym p. 445, **Poulsen.**

Glossopleura Poulsen 1927 discussed and referred to Dolichometopidae, *Sonoraspis* Stoyanow 1952 a synonym, *G. producta* (Hall & Whitfield) for *Ogygia p.* H. & W. 1877 (cotypes figured) with synonym *O. parabola* H. & W. (holotype figured) p. 67 pl. xiii figs. 7, 9–13, **Palmer (1).**

Glossopleura recorded p. 14, *G.* ? p. 39, **Hanson (2).**

Glyphaspis recorded p. 15, **Hanson (2).**

Glyptagnostus reticulatus listed p. 259, **Wilson (1).**

Goldillaenus Schindewolf 1924 referred to *Bumastus*-group of Illaenidae p. 546, **Jaanusson.**

Goldius Koninck 1841 a synonym of *Scutellum* Pusch 1833 p. 65, **Přibyl (2).**

Goniacanthus Corda 1847 a synonym of *Sao* Barrande 1846 p. 446, **Poulsen** [also p. 64 **Přibyl (2)**].

Goniophrys Ross referred to Komaspinae p. 37, **Kobayashi.**

Goniopleura Hawle & Corda 1847 listed as synonym or homonym of unspecified Otarionid genus p. 77, **Přibyl (2).**

Goniotelina vertical range Chart 2, **Twenhofel et al.**

Gourdonia **subgen. n.** of *Cryphina* [quod vide].

Grandagnostus Howell 1935 a synonym of *Phalocroma* [sic] Hawle & Corda 1847 p. 55, **Přibyl (2).**

Greenops boothi (Green) p. 130 pl. vii figs. 1–3, *G. aequituberculatus* **sp. n.** p. 131 pl. vii figs. 4–6, pl. viii figs. 5–9, *G. traversensis* **sp. n.** p. 132 pl. viii figs. 1–4, *G. alpenensis* **sp. n.** p. 133 pl. vii figs. 7–8, *G.* sp. *A* p. 134 pl. vii fig. 9 U.S.A. (Michigan),

G. arkonensis **sp. n.** p. 134 pl. viii figs. 10–14 Canada (Ontario) Devonian (Middle), **Stumm** Contr. Mus. Geol. Univ. Mich. **10** 1953.

Griffithides acanthiceps Woodward 1883 syntype (pl. 7 fig. 2) in Manchester Museum p. 38, **Jackson.**

Harpedacea Kobayashi 1935 accepted for Harpedidae alone p. 123, **Prantl & Přibyl.**

Harpedidae (Hawle & Corda 1847) Salter 1864 emend. Whittington 1950 discussed and referred to Harpedacea, Harpidedidae [quod vide] a separate family p. 123, *Proetus loredensis* of Thadeu 1947 represents a new gen. of Harpedidae p. 125, **Prantl & Přibyl.**

Harpes Goldfuss 1839 discussed, *Lioharpes* Whittington 1950 a synonym p. 126, three (artificial) groups of spp. recognised (i) group of *H. naumanni* Barrande 1852 p. 129 pl. i figs. 20–22, pl. ii fig. 15, pl. iii fig. 11, pl. iv figs. 1–2, text-figs. 2a, b, *H. ungula ungula* (Sternberg 1833) with synonyms *H. sculptus* and *H. concavus* Hawle & Corda p. 130 pl. i figs. 23–25, pl. ii figs. 1–2, 21, 29, pl. iii figs. 2–3, pl. v figs. 1–3, *H. u. ovatus* Bouček 1935 for *H. buphtalmus o.* B. p. 133, *H. buphthalmus* [sic] (Novák MS) B. 1935 p. 134 pl. iii fig. 6, pl. v fig. 4, *H. vittatus* Barrande 1852 lectotype chosen p. 135 pl. ii figs. 11–12, pl. iii fig. 8, pl. iv fig. 5, *H. crassifrons* B. 1846 [lectotype chosen] paratype figured p. 136 pl. i figs. 6–8, 12–13, pl. ii fig. 22, pl. iii fig. 4, pl. viii figs. 1, 3, *H. c. forojulensis* Gortani 1909 may be separate sp. p. 137, *H. venulosus* H. & C. 1847 lectotype selected, teratological forms figured p. 137 pl. i figs. 2–3, pl. ii figs. 7–8, 23, 25–26, 32, pl. iii fig. 9, pl. vi figs. 1–3, *H. ruderalis* H. & C. 1847 nov. emend. (holotype and paratype refigured) with synonyms *H. microporus* and *H. transiens* Novák MS p. 140 pl. i figs. 9–10, pl. ii figs. 13–14, 16, 31, pl. iii fig. 12, pl. iv figs. 3–4, pl. vii fig. 1, *H. montagnei* H. & C. 1847 lectotype chosen with synonym *H. crassimargo* Novák p. 142 pl. ii figs. 3–4, 24, pl. iii figs. 7, 13, pl. vi fig. 4, pl. vii figs. 2, 4, *H.* aff. *m.* p. 144, *H. transiens* Barrande 1872 (*non* Novák MS) holotype refigured p. 145 pl. iv fig. 6; (ii) group of *H. d'orbignyanus* B. 1846 p. 146 pl. i figs. 11, 14–15, pl. ii fig. 30, *H. socialis* Holzapfel 1895 restr. (*non* pl. 2 fig. 3 compared with *H. perneri*) lectotype chosen (pl. 2 figs. 1a, b) p. 147, *H. waageni* (Novák MS) **sp. n.** Devonian (Lower) p. 148 pl. i figs. 16–19, pl. iii fig. 5, pl. ix fig. 2, *H. perneri* **sp. n.** Devonian (Middle) p. 149 pl. iii fig. 10, pl. vii fig. 3, *H.* n. sp. p. 150, *H. nováki* **sp. n.** Devonian (Middle) p. 151 pl. ix fig. 1, *H. dvorcensis dvorcensis* **sp. et subsp. n.** Devonian (Lower) p. 152 pl. viii fig. 5, *H. d. praecedens* **subsp. n.** Silurian (Upper) p. 153 pl. viii fig. 2; (iii) group of *H. reticulatus* H. & C. 1847 lectotype selected and figured with synonym *H. carinatus* H. & C. p. 154 pl. i figs. 4–5, pl. ii figs. 5–6, 9–10, pl. viii fig. 6, *H. convexus* H. & C. 1847 (*non* Trenker 1867) nov. emend. a separate sp. (lectotype selected and figured) with synonym *H. bohemicus* Novák MS p. 155 pl. ix figs. 3–4, *H. kayseri* N. p. 128; *H.* sp. juv. [meraspis] p. 157 pl. viii fig. 4 Bohemia; some of Whittington's 1950 genera may be better considered subgenera of *Harpes* p. 125; *H. macroporus* Goldfuss pl. i fig. 1, *H. macrocephalus* G. pl. iii fig. 1; *H.* cf. *acuminatus* Lindström of Gaertner 1930 specifically distinct from typical *H. a.* p. 130, **Prantl & Přibyl** Rozpr. úst. Úst. geol. No. 18 1954.

Harpes Goldfuss 1839—*Lioharpes* Whittington 1950 a synonym p. 43, **Přibyl (2).**

Harpes bischofi (Roem.), *H. reticulatus* H. & C. [& cf. *r.* p. 11] listed pp. 92–97, *H.* sp. p. 3, *H.* cf. *montagnei* H. & C. p. 34, **Erben.**

Harpes costatus Ang. var. *acuta* **var. n.** Ordovician (Upper) U.S.S.R. (Turkestan) p. 12 pl. ii fig. 11, *H.* sp. ind. 1 for *H. wegelini?* Weber 1928, *H.* sp. ind. 2 for *H.* sp. W. 1928 p. 13, **Weber** Monogr. Paleont. S.S.S.R. **69** 1948.

Harpes neogracilis R. & E. Richter 1924 p. 39, **Pfeiffer.**

Harpes reticulatus Corda p. 23, *H.* sp. p. 12, **Kegel.**

Harpes sp. p. 57, **Keller & Lisogor.**

Harpidae referred to a superfamily Harpoidae text-fig. 2, **Whittington (4).**

Harpidedidae [sic] Whittington 1950 so ascribed, considered separate from Harpedidae p. 125, **Prantl & Přibyl.**

Harpididae referred to Harpoidae text-fig. 2, **Whittington (4).**

Harpina Novák 1885 [preoccupied] a synonym of *Eoharpes* Raymond 1905 p. 41, **Přibyl (2).**

Harpoidae as superfamily to include Harpidae, Harpididae, Entomaspidae text-fig. 2 [see also Ptychoparioidae], **Whittington (4).**

Hartshillia inflata (Hicks) reconstruction with free cheek restored text-figs. 75 (2a-b), **Hupé.**

Hartshillina spinata (Illing) reconstruction with free cheek restored text-fig. 75 (1), **Hupé.**

Hausmannia Hall & Clarke 1888 a synonym of *Odontochile* Hawle & Corda 1847 p. 49, **Přibyl (2).**

Hebediscidae Kobayashi 1943—*Triangulaspis* Lermontova 1940 referred p. 115, **Hupé.**

Hemiarges Gürich 1901 referred to Acanthopyginae **subfam. n.** p. 19, **Přibyl (2).**

Hemiarges antelucanus **sp. n.** including *Platylichas laxatus* Reed 1906 (*non* McCoy) p. 660 pl. i figs. 14–19, *H. angustifrons* **sp. n.** including *Lichas* sp. ind. R. 1906 p. 662 pl. i figs. 20–23 Ordovician (Middle) Britain (Scotland), **Tripp** Trans. roy. Soc. Edinb. **62** 1954.

Hemiarges paulianus (Clarke) p. 37, **Sinclair.**

Hemibarrandia Prantl & Přibyl 1949—*Pseudonileus* Kobayashi 1951 an [objective] synonym p. 44, **Přibyl (2).**

Hemicrypturus Green 1832 a synonym of *Asaphus* p. 77, **Přibyl (2).**

Hemigyraspis Raymond 1910 may be a synonym of *Asaphellus* Callaway 1877 if its type *H. affinis* (McCoy) is identical with *A. homfrayi* (Salter) p. 44, **Přibyl (2).**

Herse Hawle & Corda 1847 (*non* Oken 1815) a synonym of *Skreiaspis* Růžička 1944 p. 67, **Přibyl (2).**

Hibbertia trippi (Whittington) 1950 p. 673 pl. ii figs. 32–35 [hypostome described], **Tripp.**

Hicksia elvensis Delgado text-figs. 1, 2, 3, 5, 6, **Teixeira.**

Hillyardina Ross 1951 referred to Hystricurinae p. 446, **Poulsen.**

Hoffetella elongata (Lu) text-fig. 74 (4), **Hupé.**

Holia Bradley 1930 referred to Acanthoparyphinae **subfam. n.** p. 70, *H. secristi* **sp. n.** p. 81 pl. xxx figs. 29–42, pl. xxxi figs. 1–43, pl. xxxii figs. 1–5, text-figs. 21–23 (reconstructions), *H. cimelia* **sp. n.** p. 85 pl. xvii figs. 7–27, pl. xviii figs. 1–20, pl. xix figs. 1–4, pl. xxi fig. 5 Ordovician (Middle) U.S.A. (Va), *H.* sp. p. 81, development of *H.* p. 86, **Whittington & Evitt** Mem. geol. Soc. Amer. No. 59 1954.

Holomeris Hawle & Corda 1847 a synonym of *Scutellum* Pusch 1833 p. 65, **Přibyl (2).**

Holotrachelis punctilosis [sic] var. *incurvus* Web. p. 51, **Keller & Lisogor.**

Holotrachelus punctillosus Törnquist p. 46 pl. vii fig. 25 a, b, text-fig. 17 I, II, *H. p.* var. *incurvus* **var. n.** p. 46 pl. vii figs. 26, 29 a, b, text-fig. 17 III Ordovician U.S.S.R., **Weber** Monogr. Paleont. S.S.S.R. **69** 1948.

Holteria Walcott 1924 discussed and referred to Dorypigidae [sic] p. 65, age discussed p. 66, *H. problematica* (W.) cotypes refigured p. 66 pl. xv figs. 3, 4, 6, **Palmer (1).**

Holubaspis Přibyl 1950 [sic] referred to Olenidae (Oleninae) p. 16, **Přibyl (2).**

Homagnostus obesus (Belt) pl. xxv fig. 19 *pars*, pl. xxvi figs. 23, 27 *pars*, *H.* sp. p. 259, **Wilson (1).**

Homagnostus pehuenchensis Rusc. p. 7 pl. i fig. 1, *H. asperoensis* R. p. 18 pl. ii fig. 14, **Rusconi (1).**

Homalonotidae referred to Cheiruroidae p. 196 text-fig. 2, **Whittington (4).**

Homalonotus bisulcatus of Romanovsky 1878 referred to *Isotelus romanovskyi* **sp. n.** p. 26, **Weber (1).**

Homalonotus dekayi see *Dipleura dekayi.*

Homalonotus herscheli Murchison 4 hypotypes of Clarke 1913 (pl. 3 figs. 1–4), *H.* (*vanuxemi-major*) *perceensis* Clarke 1913 2 cotypes, *H. vanuxemi* Hall & *H.* cf. *v.* hypotypes of Clarke 1909 (pl. 22 figs. 2–6) : all in N.Y. State Museum p. 515, **Kilfoyle.**

Homalonotus ornatus p. 36, **Choubert.**

Homalonotus vialai Gosselet 1912 lectotype selected p. 32 pl. i figs. 6, 7, *H.* (*Digonus*) *roemeri* (de Koninck 1876) with synonymy excluding Koch 1883 p. 32 pl. i figs. 8–12, *H.* (*D.* ?) sp. *E.* Devonian (Lower) Germany (Rhineland) p. 34 pl. i fig. 13, *H.* sp. Barrois et al. 1922 p. 18, *H.* recorded p. 29, *H.* sp. ind. listed text-fig. 10 p. 43, **R. & E. Richter (1).**

Homotelus Raymond 1920 discussed p. 27, *H. rubzovensis* **sp. n.** p. 28 pl. iv figs. 23–27 Ordovician (Upper) U.S.S.R., **Weber** Monogr. Paleont. S.S.S.R. **69** 1948.

Homotelus stegops (Green) 9 hypotypes of Ruedemann 1926 (pl. 22 figs. 1–9) in N.Y. State Museum p. 516, **Kilfoyle.**

Housia varro p. 879, **Berg.**

Howellaspis Lochman & Denson 1944 a synonym of *Bolaspidella* Resser 1937 p. 74, **Palmer (1).**

Humilogriffithides someyai **sp. n.** Carboniferous (Middle) Manchoukuo p. 38 pl. vii figs. 1–12, **Endo** Bull. cent. nat. Mus. Manchoukuo No. 4 1942.

Hungaia puelchana Rusc. pp. 8, 43 pl. i figs. 2, 3 text-figs. 2, 3, 12 (reconstruction), *H. peladense* R. p. 12, **Rusconi (1).**

Hungioides Kobayashi 1936 discussed p. 339, *H. bohemicus* (Perner 1918) [so attributed rather than to Klouček 1917] and *H. nováki* K. 1936 discussed p. 340, *H. graphicus* **sp. n.** [for *Asaphus* cf. *radiatus* of Freyberg 1923 (refigured), *Lichas* sp. of R. & E. Richter 1924 and " *Dikelokephalina* " *bohemica* of R. & E. R. 1927] Ordovician (Lower) Germany (Thüringia) p. 341 pl. i figs. 1–4 text-fig. 1, **R. & E. Richter** Senckenbergiana **34** 4–6 1954.

Hyboaspis Raymond 1925 so dated, considered nom. nud. 1920, discussed and considered to be probably an Illaenid p. 564, **Jaanusson.**

Hydrocephalus Barrande 1846 a synonym of *Paradoxides* Brongniart 1822 p. 52, **Přibyl (2).**

Hydrolaenus Salter 1867 accepted to be a synonym of *Thaleops* Conrad 1843 p. 564, **Jaanusson.**

Hypagnostus lasherensis Rusc. p. 17 pl. ii fig. 12, ? *H. empozadensis* R. pp. 34, 44 pl. ii fig. 11, *H.* sp. p. 48, **Rusconi (1).**

Hypodicranotus sp. p. 614, **Whittington (3).**

Hypoparia Beecher 1897 emend. Størmer 1942 retained for Harpidae, Harpididae, Raphiophoridae, Trinucleidae, Dionididae p. 15, **Přibyl (2).**

Hysteropleura Raymond 1937 a synonym of *Bolaspidella* Resser 1937 p. 74, **Palmer (1).**

Hystricuridae Hupé 1953 see Hystricurinae.

Hystricuridae referred to Proetoidae text-fig. 2, **Whittington (4).**

Hystricurinae Hupé 1953 considered a subfamily of Solenopleuridae to include *Hystricurus, Amblycranium,* ? *Apachia, Hillyardina, Pachycranium, Parahystricurus, Psalikilus* p. 446, **Poulsen.**

Hystricurus Raymond 1913 referred to Solenopleuridae, *H. elevatus* **sp. n.** p. 42 pl. xviii figs. 1–3, 10–12, *H. deflectus* **sp. n.** p. 43 pl. xviii fig. 6, *H.* sp. *A* p. 44 pl. xviii figs. 4–5, *H.* sp. p. 44 pl. xviii figs. 7–8, 18, *H.* sp. [undescr.] pl. xviii fig. 9 Ordovician (Lower) U.S.A. (Missouri), **Heller** Missouri geol. Surv. [Publ.] (2) **35** 1954.

Hystricurus Raymond 1913 referred to Solenopleuridae, *H. binodosus* **sp. n.** p. 7 pl. i figs. 9–18,

H. ? antonovi **sp. n.** Ordovician (Middle) pl. i figs. 19–20, *H. ?* sp. (cf. *H. quadratus* Poulsen) Ordovician (Lower) p. 9 pl. i fig. 21 U.S.S.R. (Turkestan), *H. ?* (? gen. n.) *oculeus* **sp. n.** p. 9 pl. xi fig. 28 Ordovician U.S.S.R. (Urals), **Weber** Monogr. Paleont. S.S.S.R. **69** 1948.

Hystricurus vertical range Chart 2, **Twenhofel et al.**

Hystricurus crotalifrons (Dwight) for *Bathyurus ? crotalifrons* D. 1884 cotype (pl. 7 fig. 5) in N.Y. State Museum p. 517, **Kilfoyle.**

Hystricurus ellipticus (Cleland) p. 90 pl. iv figs. 12 [holotype refigured], 13, *H.* sp. A [undescr.] p. 90, **Fisher.**

Hystricurus oneotensis **sp. n.** Ordovician (Lower) U.S.A. (Minnesota) p. 75 pl. xiii figs. 6–8, ? 9 [associated cheek], ? 10 [associated pygidium], **Powell** Sci. Bull. Sci. Mus. St Paul Inst. No. 1 1935.

Hystricurus cf. *quadratus* Pouls. p. 58, **Keller & Lisogor.**

Idahoia recorded p. 51, **Hanson (1).**

Idahoia recorded p. 19, **Hanson (2).**

Idahoia wisconsensis, I. hera, I. (*Psalaspis*) *marginata, I.* (*P.*) *pattersoni* p. 878 *ff.*, *I.* cf. *I. w.* p. 879, **Berg.**

Iddingsia recorded p. 51, **Hanson (1).**

Iddingsia aff. *I. crassimarginata* p. 879, **Berg.**

Illaenidae general discussion, classified into (i) Illaeninen including *Panderia* Volborth 1863, *Nanillaenus* **gen. n.**, *Octillaenus* Salter 1867, *Dysplanus* Burmeister 1843, *Stenopareia* Holm 1886, *Illaenus* Dalman 1827, *Ectillaenus* S. 1867, *Platillaenus* **gen. n.** and *Thaleops* Conrad 1843 [quae vide]; and (ii) *Bumastus*-group including *Bumastus* Murchison 1839, *Illaenoides* Weller 1907, and *Goldillaenus* Schindewolf 1924 p. 545 *ff.*; *Theamataspis* Öpik 1937 provisionally excluded from Illaenidae p. 579, **Jaanusson.**

Illaenidae Corda discussed p. 32, **Weber (1).**

Illaenidae see *Thomastus* **gen. n.**

9-segmented Illaenidae inc. gen. —following so considered (i) group of "*Illaenus*" *wahlenbergianus* Barrande 1852 and *I. liluensis* Reed 1915; (ii) group of "*I.*" *angelini* Holm 1882, ? *I. caecus* H. 1886, and ? *I. galeatus* Reed 1896; (iii) *I. punctatus* Raymond 1905 p. 572, **Jaanusson.**

Illaenoidae taken to include Illaenidae, Bathyuridae, Leiostegiidae, Scutellidae [Styginidae not placed] text-fig. 2 [see also Ptychoparioidae], **Whittington (4).**

Illaenurus convexus Whitfield 2 syntypes (1882 pl. 4 figs. 3–4, 5) at Univ. of California p. 308, **Peck & McFarland.**

Illaenus Dalman 1827 discussed p. 573, *Decaulion* Stschegloff 1827 and *Actinolobus* Eichwald 1857 synonyms, spp. grouped into (i) *Illaenus* s. str. including *crassicauda* (Wahlenberg 1818) lectotype described and figured pl i figs. 1–7 text-figs. 4, 8c, 17 A–C, *schroeteri* (Schlotheim 1823) pl. i fig. 9, *wahlenbergii* (Eichwald 1825), *tauricornis* Kutorga 1848, *oblongatus* (Angelin 1854), *schmidti* Nieszkowski 1857, *atavus* Eichwald 1857, *laticlavius* E. 1860, *crassicauda* var. *dalmani* Volborth 1863 text-fig. 3A, *gigas, scrobiculatus, sphaericus* Holm 1882 spp., *intermedius* pl. i fig. 8, *jevensis, oblongatus* var. *excellens* text-fig. 10B and var. *kuckersianus, chudleighensis, sinuatus, sulcifrons, oculosus* Holm 1886 spp., *wimani* Warburg 1925, *warburgae* Thorslund 1940, *herculeus* Gortani 1934, ? *advena* Barrande 1872, ? *ocularis* Salter 1849, and *I. sarsi* **sp. n.** Ordovician (Lower) Sweden (Dalecarlia) for *I. esmarki* Holm 1886 (*non* Schlotheim) *partim* p. 575 pl. ii figs. 1–2 text-figs. 2, 7A, 9A, 10A, *I.* cf. *s.* pl. ii fig. 3; (ii) *Parillaenus*-group including *I. murchisoni* Salter 1849, *roemeri* Volborth 1864, *fallax* Holm 1882 text-fig. 10C, *f.* var. *elongatus* Thorslund 1940, *mascei* text-fig. 10D, *angustifrons, a.* var. *depressa* Holm 1886 spp., *dalecarlicus* Warburg 1925; *I. esmarkii* (Schlotheim 1826) [lectotype chosen] and *I. revaliensis* Holm 1886 synonyms of *I. wahlenbergi* Eichwald 1825 p. 575; *I. depressus* Foerste 1909 and *I.* spp.

div. Kiaer 1908 considered nomina nuda ; *I.* spp. div. Hawle & Corda and *I. clavifrons* Billings 1859 considered nomina dubia ; following declared homonyms *I. aratus* Novák 1918 (*non* Barrande 1872), *I. roemeri* var. *transversalis* Reed 1930 (*non I. t.* Weller 1907), *I. holmi* Sun 1931 (*non* Lindström 1885), and *I. punctatus* Roy 1941 (*non* Raymond 1905) p. 553 ; *I. conradi* Billings 1859 type of *Nanillaenus* **gen. n.** [quod vide] p. 566, *I. ladogensis* Holm 1886 type of *Platillaenus* **gen. n.** [quod vide] p. 578, *I. minor* Thorslund 1940 referred to *Theamataspis* Öpik 1937 p. 580 [see also *Panderia, Nanillaenus, Thaleops, Octillaenus, Dysplanus, Stenopareia*, 9-segmented Illaenidae inc. gen., "*Illaenus*" *salteri*-group inc. gen., *Ectillaenus, Platillaenus*], **Jaanusson** Ark. Min. 1 No. 20 1954.

Illaenus Dalman 1827—*Ectillaenus* Salter 1867 and *Alceste* Hawle & Corda 1847 [quae vide] considered subgenera p. 46, *Deucalion* Stschegloff 1827 possibly a synonym of *I.* (*Illaenus*), **Přibyl** (2).

Illaenus see *Bumastus*.

Illaenus convergens Reed 1935 p. 666 pl. ii figs. 16–18, *I.* cf. *transmotus* R. 1935 p. 667 pl. ii figs. 19–20, *I.* sp. p. 667 pl. ii figs. 21–24, **Tripp.**

Illaenus daytonensis Hall & Whitfield 2 syntypes (1875 pl. 5 figs. 15, 16) at Univ. of California but another syntype (pl. 5 fig. 14) apparently lost, *I. ovatus* (Conrad) specimens of Whitfield (1882 pl. 5 figs. 1, 2) also at Univ. of California p. 308, **Peck & McFarland.**

Illaenus ioxus see *Bumastus ioxus*.

Illaenus jutsoni Chapman 1912 redescription and new figure of holotype p. 25 pl. ix fig. 80, may belong to *Thomastus* **gen. n.** and may be synonymous with *T. vicarius* **sp. n.** p. 25, **Öpik.**

Illanenus cf. *I. latiaxiatus* Raymond and Narraway p. 37, **Sinclair.**

Illaenus perovalis, I. zeidleri p. 35, **Choubert.**

"*Illaenus*" *salteri*-group inc. gen. to include *I. salteri* Barrande 1852, *I. distinctus* B. 1852, *I. davisii* Salter 1849, and ? *I. bailyi* S. 1867 p. 576, **Jaanusson.**

Illaenus talasicus **sp. n.** p. 32 pl. v figs. 20–25, *I. convexicollis* **sp. n.** [see also Gen. et sp. ind. 7] p. 33 pl. vi figs. 1–2 text-fig. 8, *I. linnarssoni* Holm group discussed, *I.* cf. *l.* p. 34 pl. vi fig. 3, *I.* cf. *l.* var. *avus* p. 34 pl. vi figs. 4–7, *I. oviformis* Warb. p. 34 pl. vi figs. 8–12, *I.* aff. *angustifrons* H. p. 35, *I.* aff. *dalecarlicus* Warb. pl. vi fig. 13, *I.* sp. (aff. *I. d.*) pl. vi fig. 14, *I. salairicus* Weber pl. vi figs. 15–17, *I. wimani* Warb., *I. funiculatus* **sp. n.** p. 35 pl. vi figs. 18–19, *I.* aff. *tuberculatus* H. p. 36 pl. v fig. 27, *I.* aff. *roemeri* Volb. pl. vi fig. 20, *I.* sp. ind. 1 [for *I.* sp. ind. Weber 1928], *I.* n.? sp. 2 [for *I.* n.? sp. W. 1928] p. 36, *I.?* sp. ind. 3 pl. vi fig. 21, *I.* sp. ind. 4 pl. vi figs. 22–23, *I.* (*Bumastus ?*) sp. 5 pl. vi figs. 24–25, *I.* (*B.?*) sp. 6 p. 37 pl. vi figs. 26–27, *I.* sp. 7 (cf. *americanus* Bill.) pl. vi fig. 28 text-fig. 9, *I.* sp. 8 (cf. *valvulus* Raym.) text-fig. 10, *I.* sp. 9 pl. vi figs. 29–31, *I.* sp. 10 p. 38 pl. vi fig. 32, *I.* sp. 11 pl. vi figs. 33–34, *I.* sp. 12 pl. vii figs. 1–2 text-fig. 11, *I.?* sp. ind. 13 pl. vi fig. 35, *I.* sp. ind. 14 p. 39 pl. vi fig. 37, *I.* sp. 15 (*I. wimani ?*) text-fig. 12, *I.* sp. 16 (*I. linnarssoni* var. *avus ?*) pl. vi fig. 36, *I.* sp. 17 text-fig. 13, *I.* sp. 18, *I.* sp. 19 (cf. *I. marginalis* Raym.) p. 40 pl. v fig. 26 Ordovician U.S.S.R., *I.? Thaleops ?* sp. 1 [for *I. latus* of W. 1928 refigured] p. 43 pl. vii fig. 15, *I.?* sp. ind. 2 [listed under *Thaleops*] p. 43, **Weber** Monogr. Paleont. S.S.S.R. **69** 1948.

Illaenus tchernyshevae **sp. n.** p. 78 pl. i figs. 8–12, pl. ii fig. 1, *I. triangularis* **sp. n.** p. 80 pl. ii figs. 2–4, *I. weberi* **sp. n.** for *I.* spp. 8 and 11 Weber 1948 p. 83 pl. ii figs. 5–7, *I. convexicollis* W. 1948 p. 85 pl. ii figs. 8–13 Ordovician (Middle) U.S.S.R. (Kazakhstan), *I. americanus* Bill., *I. oviformis* Warb., *I.* sp. p. 58, *I. linnarssoni* var. *avus* Holm, *I.* aff. *wimani* Warb., *I. fallax* H. p. 51, **Keller & Lisogor** Trav. Inst. géol. U.R.S.S. **154** 1954.

Illaenus sp. indet. for *I.* sp. Beyer 1941 p. 14 pl. i fig. 4, **R. & E. Richter** (1).

Irvingella Ulrich & Resser referred to Komaspinae p. 35 ; *I.* (*Irvin-*

gellina) Kobayashi discussed and *Chariocephalus tumifrons* Hall & Whitfield and *C. burlingi* Resser referred p. 35, *I.* (*I.*) *protuberance* K. [sic] pl. vi figs. 4 a-d ; *I.* (*Dartonaspis*) Miller so referred p. 36, *I.* (*D.*) *knighti* M. pl. vi figs. 2a-b ; *Irvingella arctica* Walcott & Resser *partim* (? free cheek and pygidium) referred to *Parairvingella*, *I.* ? *orientalis* K. and *I.* ? sp. K. 1934 to *Irvingelloides*, *I.* ? sp. Troedsson 1937 to *Komaspis* ? sp., *I. burnetensis* and *I. media* Resser 1942 synonyms of *I. major* U. & R. pp. 40–41, **Kobayashi.**

Irvingella recorded p. 51, **Hanson (1).**

Irvingella (*Parairvingella*) see *Parairvingella* and *Komaspis.*

Irvingella jorusconii Rusc. p. 28 pl. ii fig. 6 text-fig. 15, *I. platycephala* R. p. 29 pl. ii fig. 7 text-fig. 16, *I. obliquoensis* R. p. 31 pl. ii figs. 8, 9 text-figs. 17, 18, **Rusconi (1).**

Irvingellina see *Irvingella.*

Irvingelloides Kobayashi referred to Komaspinae p. 37, *I. orientalis* for *Irvingella* ? *o.* Kobayashi 1934, *I.* ? sp. for *Irvingella* ? sp. K. 1934 p. 41, **Kobayashi.**

Isalaux Frederickson and Pollack 1952 referred to Eomonoracheinae **subfam. n.** p. 833, **Pillet.**

Isocolus cf. *sjögreni* Ang. p. 46 pl. vii fig. 28a, b, **Weber (1).**

Isotelus aktchokensis **sp. n.** p. 25 pl. iv figs. 6–8, *I. a.* ? p. 25 pl. iv figs. 9–11, *I.* sp. 1 (cf. *I. a.*) [including *I. gigas* of Ryabinin 1915] p. 26 pl. iv fig. 12, *I. romanovskyi* [*romanovskii* on pl. expl.] **sp. n.** [for *Homalonotus bisulcatus* of Romanovsky 1878 and *I.* ? Weber 1932] p. 26 pl. iv fig. 13, *I.* cf. *platymarginatus* Raymond p. 26 pl. iv figs. 14–19, *I.* cf. *maximus* Locke p. 27 pl. iv fig. 22 text-fig. 7, *I.* sp. 2 p. 27 pl. iv fig. 20, *I.* sp. ind. 3 p. 27 pl. iv fig. 21 Ordovician (Middle & Upper) U.S.S.R. (Turkestan and Novaya Zemlya), **Weber** Monogr. Paleont. S.S.S.R. **69** 1948.

Isotelus benjamini Ulrich p. 271 *ff.*, *I.* frag. p. 271 *ff.*, **Lattman.**

Isotelus gigas Dekay hypotypes of Ruedemann 1912 (pl. 10 fig. 1) and 1916 (pl. 34 fig. 6), *I. pulaskiensis* Ulrich [MS] hypotype of R. 1926 (pl. 20 fig. 3) : all in N.Y. State Museum p. 517, **Kilfoyle.**

Isotelus gigas De Kay p. 37 *ff.*, **Sinclair.**

? *Isotelus quebradensis* Rusc. p. 74, **Rusconi (2).**

Isotelus spp. p. 669 pl. ii fig. 30, **Tripp.**

Jeffersonia vertical range Chart 2, **Twenhofel et al.**

Jeffersonia bridgei **sp. n.** p. 46 pl. xviii figs. 16–17 Ordovician (Lower) U.S.A. (Missouri), *J. missouriensis* p. 15, *J.* sp. pp. 81, 84, **Heller** Missouri geol. Surv. [Publ.] (2) **35** 1954.

Josephulus Warburg 1926 [recte 1925] referred tentatively to Phacopidellinae p. 823, **Pillet.**

Kaskia Weller 1936 considered a subgenus of *Paladin* W. 1936 [quod vide] p. 5, **Whittington (2).**

Kendallia eryon, *K. biforota* p. 879 *ff.*, **Berg.**

Kettneraspis see *Acanthaloma.*

Kindbladia recorded p. 51, **Hanson (1).**

Kingaspis tentatively recorded p. 1819, **Choubert & Hupé.**

Kingstonia recorded p. 51, **Hanson (1).**

Kirkella vigilans vertical range Chart 2, **Twenhofel et al.**

Knechtella [recte *Knechtelia*] Lochman 1950 referred tentatively to Solenopleurinae p. 444, **Poulsen.**

Kochaspis Resser 1935 discussed p. 79, *K. augusta* (Walcott) 1886 *partim* [cranidium excluded — see below] holotype refigured p. 80 pl. xvii fig. 6, *K. liliana* (W.) 1886 with synonym *K. highlandensis* R. 1935 (both holotypes figured) p. 80 pl. xvii figs. 7–8, 10–11, *K. nevadensis* R. 1935 (which was based on cranidium originally assigned to *K. a.*) holotype refigured and sp. may be a synonym of *K. l.* p. 80 pl. xvii fig. 9, **Palmer (1).**

Kochina sp. indet. p. 1044, **Shaw** (2).

Kolihapeltis see *Scutellum*.

Komaspidae Kobayashi discussed and referred to Telephacea p. 24 *ff.*, classified into Bathynotinae and Komaspinae, reference of *Triarthropsis* and *Stenochilina* to Komaspidae not upheld p. 31, **Kobayashi.**

Komaspidae referred to Asaphoidae text-fig. 2, **Whittington** (4).

Komaspidella Kobayashi considered valid but excluded from Komaspidae p. 30, **Kobayashi.**

Komaspinae newly as a subfamily of Komaspidae, to include *Komaspis*, *Irvingella*, *Drumaspis*, *Chariocephalus*, *Irvingelloides*, *Goniophrys*, *Carolinites* [quae vide] p. 33, **Kobayashi.**

Komaspis Kobayashi discussed p. 33, *K. typa* K. pl. vi fig. 10, *Irvingella ?* sp. Troedsson 1937 referred tentatively to *K.* p. 33 ; *K.* (*Parairvingella*) Kobayashi so referred, *K.* (*P.*) *convexus* K. 1935 p. 34 pl. vi figs. 11a-b (photographs), *K.* (*P.*) *angustilimbatus* K. pl. vi fig. 8 [see also *Parairvingella*], **Kobayashi.**

Kootenia Walcott 1889 referred to Dorypigidae and discussed p. 64, *K. quadriceps* (Hall & Whitfield) for *Dikellocephalus q.* H. & W. 1877 cotypes refigured p. 65 pl. xiv figs. 1–3, *K. ? eurekensis* Resser 1937 considered based on a taxonomically unidentifiable specimen (refigured) p. 65 pl. xiv fig. 4, **Palmer** (1).

Kootenia recorded p. 13, **Hanson** (2).

Kootenia marcoui p. 1038 *ff.*, *K.* sp. A [undescr.] p. 1043 *ff.*, *K.* sp. indet. p. 1039, **Shaw** (2).

Kootenia sp. p. 54, *? K. kallana* **sp. n.** Cambrian (Upper) Argentina p. 54 text-fig. 27, **Rusconi** Rev. Mus. Hist. nat. Mendoza **7** 1–4 1954.

Kormagnostus Resser 1938 referred to Cyclagnostidae [recte Cyclopagnostidae] p. 123, **Hupé.**

Kormagnostus Resser 1938 discussed and referred to Peronopsinae, *K. seclusus* (Walcott) for *Agnostus s.* W. 1884 (holotype refigured and pygidium ascribed) p. 59 pl. xiii figs. 1–3, **Palmer** (1).

Kormagnostus lanceolatus **sp. n.** p. 49 text-fig. 26, *K. cuchillensis* **sp. n.** p. 48 text-fig. 25 Cambrian (Upper) Argentina, **Rusconi** Rev. Mus. Hist. nat. Mendoza **7** 1–4 1954.

Kormagnostus sp. indet. p. 1044, **Shaw** (2).

Kormagnostus sp. undet. pl. xxiv fig. 8, **Wilson** (1).

Krejčia Novák MS a synonym of *Lehua* Barton 1920 p. 47, **Přibyl** (2).

Kuanyiangia Hupé 1952 [recte 1953] so spelt p. 144, **Hupé.**

Labradoria miser (Walcott) text-fig. 62 (2), **Hupé.**

Lancastria roddyi Walcott reconstruction text-fig. 55, **Hupé.**

Lancastriidae Kobayashi 1935 referred tentatively to Olenelloidae, considered not related to Oryctocephalidae p. 135, **Hupé.**

? Lecanopyge empozadense Rusc. p. 40 text-fig. 21, **Rusconi** (1).

Lehua Barton 1920 — *Krejčia* Novák MS a synonym p. 47, **Přibyl** (2).

Leiagnostus bohemicus (Perner, Novák MS) listed p. 47, **Pribyl** (2).

Leiobienvillia **gen. n.** [Olenidae] for type *L. laevigata* **sp. n.** Ordovician (Lower) Newfoundland p. 583 pl. lxi figs. 3–6 text-fig. 3, **Rasetti** J. Paleont. **28** 5 1954.

Leiostegiidae referred to Illaenoidae text-fig. 2, **Whittington** (4).

Leiostegium vertical range Chart 2, **Twenhofel et al.**

Leiostegium ? mansuyi Reed, *L. trapezoidale* Web. p. 58, **Keller & Lisogor.**

Leiostegium trapezoidale **sp. n.** Ordovician (Lower) S.S.S.R. (Turkestan) p. 77 pl. viii figs. 31, 36, *L. ? mansuyi* Reed ? p. 78 pl. viii figs. 32–33, *L. ?* sp. (aff. *L. quadratum* Bill.) p. 79 pl. viii fig. 34, **Weber** Monogr. Paleont. S.S.S.R. **69** 1948.

Lejopyge empozadense Rusc. p. 33 pl. ii fig. 10, **Rusconi** (1).

Leonaspis R. & E. Richter 1917 a synonym of *Acantholoma* Conrad 1840 p. 23, **Přibyl** (2).

Leonaspis see *Acidaspis*.

Leonaspis laportei (Corda), *L.* sp. p. 23, **Kegel.**

Leonaspis ? trentonensis (Hall) hypotypes of Whittington 1941 (pl. 74 figs. 35–37) in N.Y. State Museum p. 518, **Kilfoyle.**

Lepidoproetus see *Proetus*.

Leptoplastus sp. p. 252, **Wilson (1).**

Lichadidae see *Lyralichas* **gen. n.**

Lichas [Dalman 1827]—*Autolichas* Reed 1923, *Metopias* Eichwald 1842 and *Metopolichas* Gürich 1901 synonnyms pp. 76–77, *L. palmatus* Barrande a synonym of *Trochurus speciosus* Beyrich p. 70, **Přibyl (2).**

Lichas (*Gaspelichas*) see *Gaspelichas*.

"*Lichas*" *bellamicus* Clarke 1907 holotype and hypotypes etc. in N.Y. State Museum p. 518, **Kilfoyle.**

Lichas breviceps Hall specimen of Hall & Whitfield (1875 pl. 6 fig. 17) at Univ. of California p. 308, **Peck & McFarland.**

Lichas (*Acanthopyge*) *meridionalis* (Frech) p. 23, **Kegel.**

Lichas radugini **sp. n.** Devonian U.S.S.R. (Siberia) p. 25 pl. iii figs. 1–7, **Weber** Annu. Soc. paléont. russe **13** 1949.

Lichas sp. Kolova 1936 referred to *Acrolichas ?* sp. ind. 1 p. 59, *L.* (*Amphilichas*) *bronnikovi* Weber type of *Lyralichas* **gen. n.** p. 60, **Weber (1).**

Lichas sp. R. & E. Richter 1924 referred to synonymy of *Hungioides graphicus* **sp. n.** p. 341, **R. & E. Richter (2).**

Lichas sp. ind. Reed 1906 referred to *Hemiarges angustifrons* **sp. n.** p. 663, **Tripp.**

Lichidae see *Lyralichas* **gen. n.**

Lichidae classified into Acanthopyginae **subfam. n.**, Trochurinae, Lichinae, Platylichinae p. 19, **Přibyl (2).**

Lichinae (Hawle & Corda 1847) emend. Phleger 1936 — Dicranopeltinae P. a synonym p. 19, **Přibyl (2).**

Ligometopus Ulrich & Delo 1940 referred to Eomonoracheinae **subfam. n.**, *L. typus* D. text-pl. i fig. 9, **Pillet.**

Lineus [error pro *Nileus*] cf. *tengriensis* Web. p. 58, **Keller & Lisogor.**

Lioharpes Whittington 1950 a synonym of *Harpes* Goldfuss 1839 [quod vide] p. 126, **Prantl & Přibyl.**

Lioharpes Whittington 1950 a synonym of *Harpes* Goldfuss 1839 p. 43, **Přibyl (2).**

Liobolina nebulosa R. & E. Richter 1951 p. 52 pl. iv fig. 8, *L. submonstrans* R. & E. R. 1951 p. 52 pl. iv figs. 6–7, **Pfeiffer.**

Liparges Gürich 1901 a synonym of *Dicranogmus* Hawle & Corda 1847 p. 37, **Přibyl (2).**

Litagnostus recorded p. 252, **Wilson (1).**

Lobocephalina Růžička 1939 — *Růžičkaia* Přibyl 1950 a synonym p. 47, **Přibyl (2).**

Lobopyge ? permarginata Přibyl & Erben, *L. ?* sp. *A* P. & E., *L.* (*Nitidulopyge*) *sexlobata* (Roem.) listed pp. 92–97, *L. ?* sp. p. 5, **Erben.**

Loganellus pichanus **sp. n.** Cambrian (Upper) Argentina p. 45 pl. iii fig. 10, **Rusconi** Rev. Mus. Hist. nat. Mendoza **7** 1–4 1954.

Lonchocephalus Owen 1852 discussed and referred tentatively to Solenopleuridae, list of assigned spp. p. 600, *L. chippewaensis* Owen text-fig. 1*a* (2 drawings); *L. swartzi* Tasch and *L. waddlei* T. referred to *Welleraspis* [quod vide] p. 601, **Rasetti (2).**

Lonchodomas cf. *domatus* Ang. p. 58, **Keller & Lisogor.**

Lonchodomas sp. 1 (aff. *L. politus* Raymond) Ordovician (Upper) U.S.S.R. p. 17 pl. ii figs. 24–25, *L.* cf. *domatus* Ang. p. 17 pl. ii fig. 23, *L.* sp. 2 for *Ampyx* cf. *macallumi* of Kolova 1936 p. 18, *L. tecturmasi* (W.) for *A.* (*L.?*) *t.* Weber 1932 p. 18 pl. ii figs. 20–22, 26, **Weber** Monogr. Paleont. S.S.S.R. **69** 1948.

Longianda recorded p. 1818, **Choubert & Hupé.**

Longianda termieri Hupé [so attributed] text-fig 63 (6), **Hupé.**

Luaspis reedi (Lu) text-fig. 74 (3), **Hupé.**

Lyralichas **gen. n.** [Lichadidae] for type *Lichas* (*Amphilichas*) *bronnikovi* Weber 1932 [refigured] p. 60 pl. x figs. 1–3, ?4, 5–8 text-fig. 27 Ordovician (Middle) U.S.S.R. (Turkestan), **Weber** Monogr. Paleont. S.S.S.R. **69** 1948.

Lyralichas bronnikovi Web. p. 51, **Keller & Lisogor.**

Macrobole see *Cyrtosymbole.*

Macromuktis Phleger 1936 considered a subgenus of *Dicranopeltis* Hawle & Corda 1847 p. 37, **Přibyl (2).**

Madarocephalus Resser 1938 discussed and referred to Catillicephalidae p. 604, *M. minor* Rasetti text-fig. 2*a* (2 drawings), **Rasetti (2).**

Maladia ? recorded p. 51, **Hanson (1).**

Malladaia Oehlert 1897 referred to Monorakeidae p. 835, **Pillet.**

Maryvillia recorded p. 51, **Hanson (1).**

Maustonia recorded p. 51, **Hanson (1).**

Maustonia nasuta p. 877 *ff.*, **Berg.**

? Megalaspis lasherensis Rusc. p. 75 pl. i fig. 12 (holotype refigured) text-fig. 6, **Rusconi (2).**

Megalaspis sp. Koliha 1937 recorded p. 48, **Přibyl (2).**

Megalaspis ? of Kolova 1936 referred to Asaphidarum gen. ind. sp. 4 p. 30, **Weber (1).**

Mendodiscus cf. *tuberculatus* Rusc. p. 55, **Rusconi (1).**

Menevia venulosa (Salter) see *Erinnys venulosa* S.

Menocephalites Kobayashi 1935 referred tentatively to Solenopleurinae p. 444, **Poulsen.**

Mesagnostus Jaekel 1909 accepted as a synonym of *Peronopsis* Hawle & Corda 1847 p. 60, **Palmer (1).**

Mesagnostus Jaekel 1909 a synonym of *Peronopsis* Hawle & Corda 1847 p. 52, **Přibyl (2).**

Mesembria Clarke 1913 considered (following Richter 1942) taxonomically illegitimate, spp. grouped therein by Clarke referred to *Paradalmanites* **gen. n.** [quod vide] p. 828, **Pillet.**

Mesembria see *Dalmanites.*

Mesophenicus [sic] Hawle & Corda 1847 accepted as a synonym of *Peronopsis* H. & C. p. 60, **Palmer (1).**

Mesopheniscus Hawle & Corda 1847 a synonym of *Peronopsis* H. & C. 1847 p. 52, **Přibyl (2).**

Mesotaphraspis **gen. n.** [Dimeropygidae] for type *M. parva* **sp. n.** p. 46 pl. iii figs. 31–36, pl. iv figs. 1–33, text-fig. 11 (reconstructions), *M. inornata* **sp. n.** p. 48 pl. xxiv figs. 1–39 Ordovician (Middle) U.S.A. (Va), **Whittington & Evitt** Mem. geol. Soc. Amer. No. 59 1954.

Metacanthina **subgen. n.** of *Asteropyge* [quod vide].

Metadoxides armatus Meneghini reconstruction text-fig. 68, **Hupé.**

Meteoraspis tinguirensis **sp. n.** Cambrian (Upper) Argentina p. 55 [unillustr.], **Rusconi** Rev. Mus. Hist. nat. Mendoza **7** 1–4 1954.

Metisia Resser 1937 a synonym of *Modocia* Walcott 1924 p. 81, **Palmer (1).**

Metopias Eichwald 1842 a synonym of *Lichas* p. 77, **Přibyl (2).**

Metopolichas Gürich 1901 a synonym of *Lichas* p. 77, **Přibyl (2).**

Metopolichas anderkensis **sp. n.** Ordovician (Upper) U.S.S.R. (Turkestan) p. 55 pl. ix figs. 1–3 text-fig. 23, *M.* sp. p. 56 pl. ix figs. 4–5, **Weber** Monogr. Paleont. S.S.S.R. **69** 1948.

Mexicella stator p. 1043 *ff.*, **Shaw (2).**

Micmacca tentatively recorded p. 1819, **Choubert & Hupé.**

Microparia Corda 1847 considered a subgenus of *Cyclopyge* C. 1847 [quod vide] p. 12, **R. & E. Richter (1).**

Microparia Hawle & Corda 1847 a synonym of *Cyclopyge* H. & C. p. 34, **Přibyl (2).**

Micropyge Corda 1847 may be a synonym of *Sao* Barrande 1846 p.446, **Poulsen** [also p. 64 **Přibyl (2)**].

Miraspis mira (Barr.) p. 130, **Prantl & Přibyl.**

Monadina Barrande 1846 a synonym of *Sao* B. 1846 [quod vide] p. 446, **Poulsen** [also p. 64 **Přibyl (2)**].

Modocia Walcott 1924 — *Metisia* Resser 1937 a synonym, *M. nevadensis* **sp. n.** Cambrian (Middle) U.S.A. (Nevada) for *Ptychoparia oweni* Walcott 1884 (*non* Meek & Hayden) refigured p. 81 pl. xvii figs. 12, 14 [non 15], **Palmer** Prof. Pap. U.S. geol. Surv. No. 264–D 1954.

? Modocia manqueliana **sp. n.** Cambrian (Upper) Argentina p. 52 pl. iv fig. 12, **Rusconi** Rev. Mus. Hist. nat. Mendoza **7** 1–4 1954.

Monocheilus anatinum p. 878 *ff.*, **Berg.**

Monodechenella **subgen. n.** see *Dechenella.*

Monorakeidae Kramarenko 1952 considered of family status, and enlarged to include (i) *Monorakos* Schmidt 1886, *Evenkaspis* K. 1952, *Parevenkaspis* K. 1952, *Ceratevenkaspis* K. 1952, *Trypaulites* Delo 1935; (ii) *Malladaia* Oehlert 1897, *Coronura* Hall & Clarke 1888, *Corycephalus* H. & C. 1888, *Odontocephalus* Conrad 1840, & *Anchiopella* Reed 1907 (the last four of which may constitute Coronurinae **? subfam. n.**) p. 834, **Pillet.**

Moxomia Walcott 1925 referred to Oleninae and discussed p. 279, **Wilson (1).**

Myopsoleninae — *Strettonia* Cobbold referred without query p. 152, **Hupé.**

Nanillaenus **gen. n.** [Illaenidae] p. 566 for type *Illaenus conradi* Billings 1859 text-figs. 12 A, B, Ordovician (Middle) Canada and *I. angusticollis* B. 1859, *N. a.* of Raymond & Narraway 1908 *partim* (pl. 61 figs. 1, 2—forms with 9 thoracic segments) excluded p. 555, **Jaanusson** Ark. Min. **1** No. 20 1954.

Nasocephalus **gen. n.** [? Crepicephalidae] p. 268 for type *N. nasutus* **sp. n.** p. 269 pl. xxiv figs. 11, 14 *pars*, 18, 19, 21, *N. flabellatus* **sp. n.** p. 269 pl. xxiv figs. 3, 22 Cambrian (Upper) U.S.A. (Texas); *Agraulos difformis* and *A. anceps* from Sweden considered congeneric with *N. n.* and *N. f.* p. 268 *n*, **Wilson** J. Paleont. **28** 3 1954.

Neochilonorria Rusconi referred to Corynexochidae p. 24, *N. coronillensis* R. p. 25 pl. ii figs. 3, 4, *N. excavata* R. p. 26 pl. ii fig. 5, **Rusconi (1).**

Neolenus Matthew 1899 discussed and considered (from examination of type material of both genera) to be a synonym of *Olenoides* Meek 1877, *N. serratus* (Rominger) type material described p. 62, **Palmer (1).**

Neometacanthus see *Asteropyge.*

Neosynphoria **nom. n.** [Pterygometopidae (Eomonoracheinae)] for type *Dalmanites* (*Synphoria*) *stemmatus* Clarke 1900 to include spp. placed by Delo in *Synphoria* p. 833, **Pillet** Bull. Soc. géol. Fr. (6) **3** 9 1954.

Nephranomma see *Phacopidella.*

Nephranops see *Phacops.*

Neseuretus ? elongatus Hicks 1873 syntype (pl. 3 fig. 1) in Manchester Museum, referred to *Calymene* sp.; *N. quadratus* H. 1873 syntype (pl. 3 fig. 26) at Manch., referred to *C.* sp. p. 39; *N. ramseyensis* H. 1873 syntype (pl. 3 fig. 21) and counterpart of syntype (pl. 3 fig. 19) at Manch., referred to *Calymene tristani* Brong. *pars*; *N.* sp. H. 1873 original at Manch., referred to *C.* sp. p. 40, **Jackson.**

Nieszkowskia Schmidt 1881 referred to Acanthoparyphinae **subfam. n.**, *N. tumida* group of Öpik 1928 referred to *Acanthoparypha* **gen. n.** p. 72, **Whittington & Evitt.**

Nieszkowskia ? raripustulata **sp. n.** Ordovician (Upper) U.S.S.R. (Turkestan) p. 71 pl. xi fig. 13, *N. ? r. ?* pl. xi figs. 11–12, **Weber** Monogr. Paleont. S.S.S.R. **69** 1948.

Nieszkowskia ? sp. p. 677 pl. iii fig. 32, **Tripp.**

Nileidae Angelin discussed p. 47, **Weber (1).**

Nileidae referred to Asaphoidae text-fig. 2, **Whittington (4).**

Nileidae see *Bumastides* **gen. n.**

Nileus see *Lineus*.

Nileus see Gen. et sp. ind. 11.

Nileus tengriensis **sp. n.** p. 48 pl. viii figs. 1–3, 5–6, *N. t.* ?, *N.* cf. *t.* pl. viii fig. 4, *N.* cf. *armadillo* Dalman p. 49 pl. viii fig. 10, *N.* sp. (*N. t* ?) p. 49 pl. viii fig. 11a, b Ordovician (Lower) U.S.S.R. (Turkestan), **Weber** Monogr. Paleont. S.S.S.R. **69** 1948.

Nileus ? sp. p. 58, **Keller & Lisogor.**

Niobe Angelin 1851—*Bohemopyge* Přibyl 1950 may be a subgenus p. 28, *N. ferrigena* Růžička, *N.* cf. *wirthi* (Barrande), *N.* cf. *insignis* (Linnarsson) listed p. 49, **Přibyl (2).**

Niobe homfrayi Salter 1865 syntype (pl. 20 fig. 3) in Manchester Museum ; *N. menapiensis* Hicks 1873 syntypes at Manch., referred to *Ogygia selwyni* S. p. 40, **Jackson.**

Nitidulopyge see *Lobopyge*.

Novákaspis Přibyl 1946 a synonym of *Otarion* Zenker 1833 p. 51, **Přibyl (2).**

Octillaenus Salter 1867 discussed, *Alceste* Hawle & Corda 1847 [quod vide] may be a synonym p. 568, *O. hisingeri* (Barrande) text-fig. 14, **Jaanusson.**

Octillaenus Salter 1867 a synonym of *Alceste* Hawle & Corda 1847 p. 46, **Přibyl (2).**

Odontocephalus Conrad 1840 referred to Monorakeidae (tentatively to Coronurinae **? subfam. n.**) p. 835, *O. selenurus* (Eaton) text-pl. i fig. 13, **Pillet.**

Odontocephalus selenourus (Eaton) holotype stated lost p. 206 pl. ii figs. 5–6, *O. bifidus* (Hall) including *O. aegeria* Meek & Worthen 1868 (*non* H.) p. 207 pl. ii fig. 7, *O. magnus* **sp. n.** Devonian (Middle) U.S.A. (Ky) p. 208 pl. ii fig. 8, **Stumm** Contr. Mus. Geol. Univ. Mich. **11** 11 1954.

Odontocephalus selenurus p. 632 *ff.*, **Oliver.**

Odontochile Hawle & Corda 1847—*Hausmannia* Hall & Clarke 1888 a synonym, *O. hausmanni* (Brongniart 1822) may be a synonym of *O. punctatus* (Brünnich) p. 49, **Přibyl (2).**

Odontochile relations with *Dalmanites* discussed p. 28, **Öpik.**

Odontochile ? emarginatus (Hall) hypotypes etc. of Clarke 1908 and 1909 [as *Dalmanites e.*], *O. micrurus* (Green) and *O.* cf. *m.* (G.) hypotypes etc. of Clarke 1908 and 1909 [as *D. m.*], *O. m.* var. *clarkei* Delo holotype and paratypes, *O. perceensis* (Clarke) for *D. p.* C. cotypes, *O. phacoptyx* (H. & C.) var. *gaspensis* cotypes, *O. ploratus* (Clarke) for *D. ploratus* C. holotype : all in N.Y. State Museum p. 519 *ff.*, **Kilfoyle.**

Odontochile tuberculata (Roem.) listed p. 95, *O.* sp. p. 3, **Erben.**

Odontopleura bispinosa Emmrich 1845 a synonym of *O. ovata* E. 1839 p. 49, **Přibyl (2).**

Odontopleura ceralepta (Anthony) hypotype of Ruedemann 1926 (pl. 22 fig. 10), *O. crosota* (Locke) hypotype of R. 1912 (pl. 9 figs. 4, 5—as *Acidaspis c.*) and 1926 (pl. 22 fig. 11) in N.Y. State Museum p. 522, **Kilfoyle.**

Odontopleura ovata Emmrich p. 130, **Prantl & Přibyl.**

Odontopleuracea considered of only family status p. 52, **Whittington & Evitt.**

Odontopleuridae Burmeister 1843 discussed, distinction of Ceratocephalidae as a separate family not maintained p. 52, **Whittington & Evitt.**

Odontopleuridae see Acidaspidae.

Ogygia recorded p. 35, **Choubert.**

Ogygia producta Hall & Whitfield 1877 with synonym *O. parabola* H. & W. 1877 referred to *Glossopleura* p. 67, *O. ? spinosa* Walcott 1884 referred to *Zacanthoides* but stated not to be type species of *Z.* p. 70, **Palmer (1).**

Ogygia selwyni Salter 1852 original of S. 1866 pl. 17 fig. 2 in Manchester Museum p. 40, see also *Niobe menapiensis* Hicks 1873, **Jackson.**

Ogygiocaris ? sp. indet. [R. & E. Richter 1937] p. 14, **R. & E. Richter (1).**

Ogygites vertical range Chart 2, **Twenhofel et al.**

Ogygites cf. *birmanicus* Reed p. 28 pl. iv fig. 28, pl. v fig. 13, **Weber (1).**

Olenellid cf. "*Olenellus*" *gigas* Peach p. 1819, **Choubert & Hupé.**

Olenellidae indet. p. 1037, **Shaw (2).**

Olenelloidae general discussion and classification into Olenellidae, Daguinaspidae, and ? Lancastriidae p. 123 *ff.*, **Hupé.**

Olenelloidae — suggested grouping with Redlichioidae as an order p. 198, **Whittington (4).**

Olenellus brachycephalus, *O. vermontanus*, *O.* sp. indet. p. 1041, *O. hermani* p. 1044, **Shaw (2).**

Olenellus gilberti Meek protaspis described briefly p. 737, **Palmer (2).**

Olenid records from North America discussed p. 263, Olenid free cheek (continuae) from Texas p. 259, **Wilson (1).**

Olenidae see *Leiobienvillia* **gen. n.**

Olenidae (Oleninae) — *Euloma*, *Eulomina*, *Bavarilla*, *Parabolinella*, *Holubaspis* and *Sao* referred p. 16, **Přibyl (2).**

Oleninae Kobayashi 1935—following genera referred *Beltella* Lake 1919, *Paenebeltella* Ross 1951, *Angelina* Salter 1859, *Andesaspis* Kobayashi 1935, *Tostonia* Walcott 1925, *Moxomia* W. 1925, *Parabolinella* Brögger 1882, *Olenus* Dalman 1827, **Wilson (1).**

Olenoidae see Ptychoparioidae.

Olenoides Meek 1877 discussed, and considered (from examination of type material of both genera) that *Neolenus* Matthew 1899 is synonymous, *O. nevadensis* (M.) described p. 64 holotype refigured pl. xiv fig. 9, *O. expansus* (Walcott) for *Dicellocephalus ? e.* W. 1884 (associated pygidium described) holotype refigured p. 63 pl. xiv figs. 5, 7, *O. wahsatchensis* (Hall & Whitfield) for *Dikellocephalus w.* H. & W. 1877 (holotype refigured) with synonym *D. ? gothicus* H. & W. 1877 p. 64 pl. xiv figs. 6, 8 ; *O. typicalis* Walcott 1886 referred to *Zacanthoides* [quod vide] p. 70, **Palmer (1).**

Olenoides diamantensis Rusc. p. 20 pl. i figs. 8, 9 text-figs. 9, 13 (reconstruction), *O.* sp. p. 23, **Rusconi (1).**

Olenopsis age and affinities discussed pp. ix–x, list of Sardinian forms pp. 193–194, **Comaschi Caria.**

? Olenus obliquoensis **sp. n.** Cambrian (Upper) Argentina p. 43 pl. iii fig. 9, **Rusconi** Rev. Mus. Hist. nat. Mendoza **7** 1–4 1954.

Olenus cf. *O. truncatus* (Brünnich) 1781 to which Pygidium sp. undet. 5 [quod vide] may belong, from Texas p. 282 pl. xxvi fig. 24, **Wilson (1).**

Onchaspis Raymond 1925 (of which *Onychaspis* is considered a misspelling) a synonym of *Ceratocephala* Warder 1838 p. 53, **Whittington & Evitt.**

Onnia terryi (Leith) 1938 for *Cryptolithus t.* L. holotype refigured p. 1 pl. figs. 1–7, **Whittington (5).**

Onychaspis Raymond 1925 considered a misspelling of *Onchaspis* [quod vide] p. 53, **Whittington & Evitt.**

Opisthoparia Beecher 1897 retained for Olenidae, Conocoryphidae, Solenopleuridae, Dikelocephalidae, Remopleuridae, Telephidae, Ellipsocephalidae, Ceratopygidae, Asaphidae, Nileidae, Illaenidae, Styginidae, Cyclopygidae, Scutellidae, Proetidae, Otarionidae, Odontopleuridae, Selenopeltiidae, Ceratocephalidae, Lichidae, Paradoxididae, Calymenidae, Homalonotidae p. 16 *ff.*, **Přibyl (2).**

Oriella [sic] sp. indet. p. 1044, **Shaw (2).**

Orometopus aff. *elatifrons* (Angelin) and *O.* aff. *praenuntius* (Salter) listed from Bohemia p. 50, **Přibyl (2).**

Orphanaspis gracilicauda Erben listed p. 93, **Erben.**

Oryctocephalidae — Lancastriidae considered not related p. 135, **Hupé.**

Oryctocephalus Walcott 1886 discussed, *O. primus* W. cotypes refigured p. 68 pl. xv figs. 1, 2, **Palmer (1).**

Orygmaspis recorded p. 51, **Hanson (1).**

Osceolia osceola p. 878, **Berg.**

Otarion Zenker 1833 emend. R. & E. Richter 1926—*Conoparia* Hawle & Corda 1847, *Cyphaspis* Burmeister 1843 and *Novákaspis* Přibyl 1946 synonyms p. 50, *Coignouina* Reed 1943 considered a subgenus, **Přibyl (2)**.

Otarion (*Otarion*) *convexum* Corda p. 23, *O.* sp. p. 12, **Kegel.**

Otarion (*O.*) *druida* Erben, *O.* (*O.*) *convexum* (H. & C.), *O.* (*O.*) *hydrocephalum h.* (Roem.), *O.* (*Coignouina*) cf. *davidsoni* (Barr.) listed pp. 92–97, *O.* (*O.*) sp. p. 3 *ff.*, *O.* (*O.*) aff. *c.* p. 53, **Erben.**

Otarion cf. *hydrocephala* Roem. p. 5 *n*, Czarnocki *in* **Kielan.**

Otarion isoplates **sp. n.** p. 669 pl. iii figs. 1–4, *O. beggi* **sp. n.** p. 670 pl. iii figs. 5–6, *O.* sp. p. 671 pl. iii figs. 7–8 Ordovician (Middle) Britain (Scotland), **Tripp** Trans. roy. Soc. Edinb. **62** 1954.

Otarion (*Otarion*) *polonicum* **sp. n.** [p. 24] *polonicum* **subsp. n.** p. 25 pl. ii fig. 9 text-fig. 17 (4 figs.), *O.* (*O.*) *polonicum praecedens* **subsp. n.** p. 26 pl. ii figs. 10–11 text-fig. 18 (2 views), *O.* (*O.*) sp. p. 26 pl. ii fig. 12 text-fig. 19 (3 views) Devonian (Middle) Poland (Lysa Gora), **Kielan** Palaeont. polon. No. 6 1954.

Otarionidae referred to Proetoidae text-fig. 2, **Whittington (4)**.

Otarionidae — *Glaphurina* Ulrich 1929 referred p. 87, **Keller & Lisogor.**

Pachycranium Ross 1951 referred to Hystricurinae p. 446, **Poulsen.**

Paenebeltella Ross 1951 referred to Oleninae p. 277, **Wilson (1)**.

Pagetides parkeri p. 1040 *ff.*, **Shaw (2)**.

Paladin Weller 1936 discussed and referred to Phillipsiinae, *Kaskia* W. 1936 considered a subgenus p. 5, *P.* (*P.*) *morrowensis* (Mather 1915) emended description (holotype refigured) p. 6 pl. i figs. 1–6, 9, *P.* (*P.*) *helmsensis* **sp. n.** p. 7 pl. ii figs. 1–45, pl. iii figs. 1–17 text-fig. 1 (reconstruction), *P.* (*Kaskia*) *rarus* **sp. n.** p. 12 pl. i figs. 7, 8, 10–35 Carboniferous U.S.A. (Texas), **Whittington** Smithson. misc. Coll. **122** 10 1954.

Palaeoleninae — *Cheiruroides* Kobayashi 1935 referred p. 154, **Hupé.**

Palaeolenus douvillei Mansuy text-fig. 74 (1), **Hupé.**

Panderia Volborth 1863 discussed, following spp. referred *Nileus beaumonti* Rouault 1847, *Illaenus sanchezi* Verneuil & Barrande 1855, *P. triquetra* Volborth 1863 text-figs. 11 A, B, *I.* (*P.*) *lewisii* Salter 1867, *P. megalophthalma* Linnarsson 1869, *I. parvulus* Holm 1882, *P. raniceps* Gortani 1934, ? *I. nuculus* Pompecki 1890, ? *Illaenus ?* n. sp. Öpik 1937 ; *I. parvulus* of Wiman 1907 and *I.* cf. *p.* of Warburg 1925 represent new spp. of *P.* p. 565, **Jaanusson.**

Parabolinella Brögger 1882 list of known spp. from non-Acadian North America p. 263, *P. incerta* (Rasetti) 1945 [see also Pygidium sp. undet. 5] probably not a synonym of *P. punctolineata* Kobayashi 1936 p. 280 pl. xxvi figs. 18–22, *P.* cf. *P. triarthroides* Harrington 1938 p. 280 pl. xxvii fig. 18, *P. evansi* K. 1936 (which with *P. occidentalis* Wilson 1951 may form a distinct genus) p. 281 pl. xxv figs. 10, 15–17, *P.* sp. undet. [recorded by A. R. Palmer] from Nevada p. 263, **Wilson (1)**.

Parabolinella sp. Koliha 1937 recorded p. 51, **Přibyl (2)**.

Parabolinoides recorded p. 51, **Hanson (1)**.

Parabolinoides contractus p. 877, *P. palatus* p. 879 *ff.*, **Berg.**

Paracrocephalites **gen. n. (nom. n.** for *Arctaspis* Lermontova 1940 *non* Heintz 1929) referred tentatively to Acrocephalitinae p. 445, **Poulsen** Medd. dansk geol. Foren. **12** 4 1954.

Paradalmanites **gen. n.** [Dalmanitidae (Dalmanitinae)] for type *Dalmanites acacia* Schwarz 1906 text-pl. iii fig. 9 [line drawing], to include spp. grouped by Clarke 1913 in *Mesembria* [quod vide] p. 828, **Pillet** Bull. Soc. géol. Fr. (6) **3** 9 1954.

Paradechenella see *Dechenella.*

Paradiscus Kobayashi 1943 a synonym of *Serrodiscus* R. & E. Richter 1941 p. 117, **Hupé.**

Paradoxides Brongniart 1822 emend. auct.—*Hydrocephalus* Barrande 1846, *Phlysacium* & *Phanoptes* Hawle & Corda 1847 synonyms p. 52,

P. spinosus (Boeck) a synonym of *P. minor* (B.), and *P. bohemicus* (B.) of *P. gracilis* (B.), **Přibyl (2).**

Paradoxides bohemicus, P. mediterraneus p. 34, **Choubert.**

Paradoxididae discussed and derived from Redlichioidae (probably Ellipsocephalidae) rather than from Olenelloidae p. 155 *ff.*, **Hupé.**

Paragnostus Jaekel 1909 a synonym of *Condylopyge* Hawle & Corda 1847 p. 33, **Přibyl (2).**

Parahystricurus Ross 1951 referred to Hystricurinae p. 446, **Poulsen.**

Parahystricurus sp. undet. (probably new) p. 274 pl. xxvi fig. 12, **Wilson (1).**

Parairvingella Kobayashi considered a subgenus of *Komaspis* [quod vide], *P. hamburgensis* Resser 1942 referred with query to *Elvinia* p. 34, *Irvingella arctica* Walcott & Resser *partim* to *P.* p. 26, **Kobayashi.**

Paralejurus see *Scutellum.*

Paranileus Kobayashi 1951 a synonym of *Symphysurus* Goldfuss 1843 p. 69, **Přibyl (2).**

Paranileus Hintze 1952 [recte 1953] *non* Kobayashi 1951 renamed *Presbynileus* **nom. n.** [quod vide] p. 119, **Hintze.**

Paraplethopeltis vertical range Chart 2, **Twenhofel et al.**

Paraplethopeltis minuta **sp. n.** p. 45 pl. xviii figs. 13–15 Ordovician (Lower) U.S.A. (Missouri), **Heller** Missouri geol. Surv. [Publ.] (2) **35** 1954.

Parasolenopleura Westergård 1953 referred to Solenopleurinae p. 444, discussed p. 443, **Poulsen.**

Parasolenopleuroidae see Ptychoparioidae.

Pardailhania Thoral 1947 referred to Saoinae p. 446, **Poulsen.**

Pareuloma **gen. n.** [? Ptychopariidae] p. 583 for type *P. brachymetopa* **sp. n.** p. 584 pl. lx figs. 1–8 text-fig. 2, *P. impunctata* **sp. n.** p. 585 pl. lxi figs. 1–2 Ordovician (Lower) Newfoundland, **Rasetti J. Paleont. 28** 5 1954.

Parillaenus-group of *Illaneus* [quod vide] p. 574, **Jaanusson.**

? *Peltura jarillana* Rusc. p. 15 text-fig. 6, **Rusconi (1).**

Pemphigaspis Hall 1863 discussed and referred to Catillicephalidae p. 603, *P. bullata* H. (of which *P. appalachia* Resser may be a synonym) text-fig. 1*f* (2 drawings); *P. b. waddlensis* Tasch may be a synonym of *P. intermedia* T. p. 604, **Rasetti (2).**

Pennaia Clarke 1913 discussed and referred to Acastinae p. 826, **Pillet.**

Periomma typicalis p. 1040, **Shaw (2).**

Perliproetus ? münsteri (Rein. Richter) 1869 p. 33 pl. i figs. 1–2, **Pfeiffer.**

Perneraspis Prantl 1947 referred to Solenopleurinae p. 445, **Poulsen.**

Perneraspis lata (Růžička) and *P. conifrons* (Pompeckj) listed from Bohemia p. 52, **Přibyl (2).**

Peronopsinae — *Kormagnostus* Resser 1938 referred p. 59, **Palmer (1).**

Peronopsis Hawle & Corda 1847 discussed, *Mesophenicus* [sic], *Diplorrhina* H. & C., *Mesagnostus* Jaekel & *Quadragnostus* Howell accepted as synonyms, *P. interstrictus* (White) for *Agnostus i.* W. 1874 (holotype refigured) p. 60 pl. xiii fig. 6, *A. bidens* Meek referred to *P.* p. 62, **Palmer (1).**

Peronopsis Hawle & Corda 1847—*Mesopheniscus* and *Diplorrhina* H. & C. 1847, *Mesagnostus* Jaekel 1909, *Quadragnostus* Howell 1935 and ? *Acadagnostus* Kobayashi 1939 synonyms p. 52, **Přibyl (2).**

Peronopsis jarillensis Rusc. pp. 20, 34 pl. i fig. 7, **Rusconi (1).**

Peronopsis sp. indet. p. 1044, **Shaw (2).**

Pesaia Walcott & Resser 1924 referred to Acrocephalitinae p. 445, **Poulsen.**

Petigurus nero Bill. see Gen. et sp. ind. 3.

Phacopacea see Phacopidea.

Phacopidae Hawle & Corda 1847 referred to Phacopidea, and classified into Phacopinae, Phacopidellinae, and Acastinae [quae vide] p. 822 *ff.*, **Pillet.**

Phacopidae referred to Cheiruroidae p. 196 text-fig. 2, **Whittington (4).**

Phacopidae gen. ind. listed p. 56, **R. & E. Richter (1).**

Phacopidea Salter 1864 discussed and classified into Phacopidae Hawle & Corda 1847, Dalmanitidae Delo 1935, Pterygometopidae Reed 1905, and Monorakeidae Kramarenko 1952 [quae vide] p. 822 *ff.*, **Pillet.**

Phacopidella bulliceps (Barr.), *P.* cf. *trapeziceps* (B.) p. 12, *P.* cf. *micromma* (Roem.) p. 23, **Kegel.**

Phacopidella (*Nephranomma*) *drepanomma* and *P.* (*N.*) *harpomma* Erben listed pp. 92–97, *P.* ? sp. p. 22, **Erben.**

Phacopidella cf. *liopyga* (Reinh. Richter 1863) p. 48 pl. iii figs. 10–11, pl. iv fig. 1, *P.* (*Ductina*) *ductifrons* R. & E. Richter 1923 p. 50 pl. iv figs. 2–3, **Pfeiffer.**

Phacopidella (*Denckmannites*) *microma* [sic] (Roemer) — *Phacops fugitivus* Barrande a synonym p. 53, **Přibyl (2).**

Phacopidella misera (Barr.) p. 142, **Prantl & Přibyl.**

Phacopidellinae Delo 1935 referred to Phacopidae, and taken to include *Phacopidella* Reed 1905, ? *Josephulus* Warburg 1925, and ? *Adastocephalus* Mitchell 1919 p. 823, **Pillet.**

Phacopina Clarke 1913 referred tentatively to Acastinae but may be close to Phacopidellinae p. 826, **Pillet.**

Phacopina nylanderi (Clarke) for *Phacops n.* C. 1907 holotype, *Phacopina ? correlator* (C.) for *Phacops c.* C. hypotypes etc. in N.Y. State Museum p. 523, **Kilfoyle.**

Phacopinae Reed 1905 taken to include *Phacops* Emmrich 1839 (with subgenera), *Dereimsia* Kozlowski 1923, and *Bouleia* K. 1923 p. 822, **Pillet.**

Phacops Emmrich 1839—*Somatrikelon* M'Mutrie 1819 with query a synonym p. 54, *P. fugitivus* Barrande a synonym of *Phacopidella* (*Denckmannites*) *microma* (Roemer) p. 53, **Přibyl (2).**

Phacops boecki Corda, *P.* (*Reedia*) cf. *cephalotes* C. p. 10, **Přibyl (1).**

Phacops (*Phacops*) *breviceps* Barr., *P.* (*P.*) *intermedius* B. p. 23, *P.* sp. p. 12, **Kegel.**

Phacops (*P.*) *breviceps breviceps* Barr., *b. rhenanus* and *b. minusculus* Novák, *P.* (*P.*) *intermedius* B. [and cf. *i.* p. 5], *P.* (*P.*) *sternbergi* H. & C., *P.* (*P.*) *signatus* H. & C., *P.* (*P.*) *planilimbatus* Wedekind, *P.* (*P.*) *fecundus degener* and *f. major* B., *P.* (*Reedops*) *bronni* (B.), *P.* (*R.*) *walcotti* (W.) listed pp. 92–97, *P.* sp. p. 4 *ff.*, *P.* (*P.*) sp. p. 16, *P.* (*R.?*) sp. p. 38, *P.* (*P.*) *frechi* Kayser p. 52, **Erben.**

Phacops cristata Hall p. 212 pl. iv figs. 8, 10, *P. pipa* Hall & Clarke for *P. c.* var. *p.* H. & C. p. 213 pl. iv figs. 1–6, 9, 11, *P. canadensis* **sp. n.** Canada (Ontario) p. 213 pl. iv figs. 7, 15, 18, *P. nasutus* **sp. n.** U.S.A. (Ky) p. 214 pl. iv figs. 12–13, 16, *P. ohioensis* **sp. n.** U.S.A. (Mich. and Ohio) p. 214 pl. iv figs. 14, 17, *P. rana* (Green) p. 215 pl. iv figs. 19–20 Devonian (Middle), **Stumm** Contr. Mus. Geol. Univ. Mich. 11 11 1954.

Phacops cristata p. 632 *ff.*, **Oliver.**

Phacops fecundus p. 36, **Choubert.**

Phacops goeldi Katzer 1897 cotypes, *P. logani* Hall hypotypes of Clarke 1908, *P. l.* var. *gaspensis* Clarke cotypes and hypotypes etc. in N.Y. State Museum p. 523 *ff.*, **Kilfoyle.**

Phacops cf. *hoeninghausi* Barr. p. 149, *P. fecundus major* B. p. 156, **Prantl & Přibyl.**

Phacops (*Nephranops*) *incisus incisus* (Roem. 1866) p. 39 pl. ii fig. 1, *P.* (*Cryphops*) *acuticeps* (Kayser 1889) p. 40 pl. ii figs. 2–3, *P.* (*C.?*) *ensae* R. & E. Richter 1926 p. 40 pl. ii fig. 4, *P.* (*C.?*) *wocklumeriae* R. & E. R. 1926 p. 41 pl. ii figs. 5–8, [*P.* (*C.*) *cryptophthalmus* not found in U. Devonian of Saalfeld pp. 40, 54], *P.* (*Trimerocephalus*) *mastophthalmus* (Reinh. Richter 1856) p. 42 pl. ii figs. 9–10, *P.* (*T.*) *steinachensis* R. & E. Richter 1926 p. 43 pl. ii fig. 12, *P.* (*T.*) *caecus* Gürich 1896 pl. ii fig. 11 and cf. *caecus* p. 44, *P.* (*Dianops*) *limbatus* Reinh. R. 1848 p. 45 pl. iii figs. 1–4 and cf. *limbatus* pl. iii fig. 5, *P.* (*D.*) *bartzschi* **sp. n.** Devonian (Upper) Germany (Thüringia) p. 46 pl. iii figs. 6–7, *P.* (*D.*) *anophthalmus* Frech 1892 p. 48 pl. iii figs. 8–9, **Pfeiffer** Beih. Z. Geol. No. 11 1954.

Phacops macroura Sjögren original of Salter 1864 pl. 4 fig. 21 claimed to be in Manchester Museum [not at Ludlow] p. 41, **Jackson.**

Phacops (*Ph.*) cf. *major* Barr., *P.* (*Ph.*) cf. *potieri* Bayle p. 5 *n*, Czarnocki *in* **Kielan.**

Phacops michelini Rouault 1851 type of *Pseudocryphaeus* **gen. n.** p. 831, **Pillet.**

Phacops (*Phacopidella*) *nylanderi* and *P.* (*P.*) *correlator* see *Phacopina nylanderi.*

Phacops rana (Green) discussed p. 135 pl. x figs. 22–24, pl. xi figs. 1–11, 22–23, pl. xii fig. 11, *P. r. crassituberculata* **subsp. n.** Michigan p. 136 pl. ix figs. 5–13, pl. x figs. 19–21, *P. r. milleri* Stewart p. 137 pl. ix figs. 1–4, pl. x figs. 1–10, *P. r. arkonensis* **subsp. n.** Ontario p. 138 pl. x figs. 11–14, *P. r. bellensis* **subsp. n.** Mich. p. 139 pl. x figs. 15–18, *P. r. alpenensis* **subsp. n.** Mich. p. 139 pl. xi figs. 12–21, *P. r. norwoodensis* **subsp. n.** Mich. p. 140 pl. xii figs. 6–10, *P. iowensis* Delo p. 140 pl. xii figs. 4–5, 12–15, *P. i. southworthi* **subsp. n.** Ontario p. 141 pl. xii figs. 1–3 Devonian (Middle) U.S.A. and Canada, **Stumm** Contr. Mus. Geol. Univ. Mich. **10** 1953.

Phacops retardatus Reed 1914 and *P. truncatocaudatus* Portlock 1843 referred to *Achatella* p. 685, *P. brongniarti* P. with synonyms *P. dalmanni* and *P. murchisonii* P. to *Calliops* p. 685, **Tripp.**

Phacops (*Phacops*) *schlotheimi skalensis* **subsp. n.** p. 32 pl. v figs. 1–9 text-figs. 26, 28 (each 2 views), 27, 31A [31B *P.* (*P.*) *schlotheimi* Bronn], *P.* (*P.*) *latifrons grzegorzowicensis* **subsp. n.** p. 36 pl. vii figs. 1–5 text-figs. 29, 30 (each 2 views), *P.* (*P.*) *sobolewi* **sp. n.** for *P.* sp. nov. Sobolev 1909 p. 38 pl. vi figs. 1–8 text-figs. 32, 33 (each 2 views), 34 (section of test) Devonian (Middle) Poland (Lysa Gora), **Kielan** Palaeont. polon. No. 6 1954.

Phacops typhlagogus **sp. n.** Silurian (Lower) Australia (Victoria) p. 26 pl. x figs. 81–84, **Öpik** Mem. geol. Surv. Vict. No. 19 1953.

Phacops sp. listed p. 42 text-fig. 9, **R. & E. Richter (1).**

Phaëtonellus planicaudus ulcifrons Erben listed p. 93, **Erben.**

Phalocroma [sic] Hawle & Corda 1847—*Plathagnostus* [sic] and *Grandagnostus* Howell 1935 synonyms, *P. nudum* (Beyrich) so referred p. 55, **Přibyl (2).**

Phanoptes Hawle & Corda 1847 a synonym of *Paradoxides* p. 52, **Přibyl (2).**

Pharostoma Hawle & Corda 1847 referred to Calymeninae p. 19, **Přibyl (2).**

Pharostoma mendozana Rusc. p. 76 pl. i fig. 14 (holotype refigured), **Rusconi (2).**

Phillipsia see *Phyillipsia.*

Phillipsia cf. *eichwaldi* of Holtedahl 1911 pl. 2 fig. 11 referred to *Ameuria* [sic] sp. p. 347, **Wang.**

Phillipsia gemmulifera (Phillips 1836) original of Woodward 1883 pl. 3 fig. 3 in Manchester Museum p. 41, **Jackson.**

Phillipsia cf. *truncatula* (Phillips) p. 297, **George.**

Phillipsia sp. listed p. 2, **Chisaka.**

Philonyx R. & E. Richter 1952 referred tentatively to Eomonoracheinae **subfam. n.** p. 834, **Pillet.**

Phlysacium Hawle & Corda 1847 a synonym of *Paradoxides* p. 52, **Přibyl (2).**

Phyillipsia [recte *Phillipsia*] ? sp. p. 382 pl. i fig. 11, **Minato.**

Phylacops Cooper & Kindle 1936 considered a synonym of *Cyclopyge* (*Cyclopyge*) Corda 1847 p. 12, **R. & E. Richter (1).**

Phylacops synophthalmus (Klouček) and *P. infaustus* (Barrande) so referred p. 55, **Přibyl (2).**

Pinctus Wilson 1951 a synonym of *Glaphyraspis* Resser 1937 [quod vide] p. 445, **Poulsen.**

Piriproetus see *Proetus.*

Placoparina Whittard 1940 with query a synonym of *Eccoptochile* Hawle & Corda 1847 p. 39, **Přibyl (2).**

Plasiaspis Prantl & Přibyl 1949 referred to Dindymeninae **subfam. n.** p. 20, **Přibyl (2).**

Plataspella recorded p. 51, **Hanson (1).**

Plathagnostus [recte *Platagnostus*] Howell 1935 a synonym of *Phalocroma* [sic] Hawle & Corda 1847 p. 55, **Přibyl (2).**

Platillaenus **gen. n.** [Illaenidae] p. 578 for type *Illaenus ladogensis* Holm 1886 pl. iii figs. 6, 7 text-figs. 9D, 10G, 19 Ordovician (Lower) Russia and Sweden, including also *I. ? mirus* Wiman 1907, **Jaanusson** Ark. Min. 1 No. 20 1954.

Platopolichas Gürich 1901—*Autoloxolichas* Phleger 1936 a synonym p. 56, *P. avus* (Barrande), *P. incola* (B.) and *P. praecursor* (Holub) listed, **Přibyl (2).**

Platycolpus cf. *P. capax* (Billings) 1860 p. 274 pl. xxvii figs. 5–8, **Wilson (1).**

Platycolpus crucensis Rusc. p. 13 pl. i figs. 4, 5, text-fig. 4, *P. excavatus* R. p. 14 text-fig. 5, **Rusconi (1).**

Platycolpus eatoni (Whitfield) p. 77 pl. xiii fig. 1, **Powell.**

Platylichas ? kloučeki (Růžička) so referred p. 56, **Přibyl (2).**

Platylichas sp. p. 660 pl. i figs. 12–13; *P. laxatus* Reed 1906 (*non* McCoy) referred to *Hemiarges antelucanus* **sp. n.** p. 661, **Tripp.**

Platypeltoides Přibyl 1948 discussed, *P. ? longicauda* (Klouček) listed p. 57, **Přibyl (2).**

Plethagnostus jarillensis p. 19 pl. i fig. 6, **Rusconi (1).**

Plethometopus albertensis Resser 1942 p. 33, **Shaw (1).**

Plethopeltidae referred to Proetoidae text-fig. 2, **Whittington (4).**

Pliomera cf. *pseudoarticulata* (Portl.) p. 72 pl. xi fig. 21, *P. anderkensis* **sp. n.** p. 73 pl. xi fig. 20 text-fig. 38, *P. ?* sp. 1 pl. xi fig. 24, *P. ?* sp. ind. 2 pl. xi fig. 22, *P.* sp. 3 pl. xi fig. 23 Ordovician (Lower and Upper) U.S.S.R., *P.* (*Encrinurella*) discussed p. 74, *P.* (*E.?*) *sulcifrons* **sp. n.** p. 74 pl. x figs. 16–17, *P.* (*E. ?*) *Ceraurus ?* sp. (aff. *P. E.? canthifrons* n. sp. [nom. nud.]) p. 75 pl. x figs. 18, 19, **Weber** Monogr. Paleont. S.S.S.R. **69** 1948.

Pliomera sp. pp. 51, 58, **Keller & Lisogor.**

Pliomeridae referred to Cheiruroidae p. 196 text-fig. 2, **Whittington (4).**

Pliomerops vertical range Chart 2, *P. barrandei* recorded p. 279, G. A. Cooper *in* **Twenhofel et al.**

Pliomerops jidelensis **sp. n.** p. 91 pl. iii figs. 8–12, *P. kogaschikensis* **sp. n.** p. 93 pl. iv figs. 1–2, *P. borsuki* **sp. n.** for *P.* sp. 1 Weber 1948 p. 94 pl. iv figs. 3–4, *P. planus* Web. MS **sp. n.** p. 95 pl. iv figs. 5–7 Ordovician (Middle) U.S.S.R. (Kazakhstan), **Keller & Lisogor** Trav. Inst. géol. U.R.S.S. **154** 1954.

Pliomerops parallela **sp. n.** p. 71 pl. xi fig. 16, *P.* sp. 1 (? *P. parallela*) p. 72 pl. xi figs. 14–15, *P.* sp. 2 pl. xi fig. 19 Ordovician U.S.S.R., **Weber** Monogr. Paleont. S.S.S.R. **69** 1948.

Pliomerops ? recorded p. 254, **Wilson (1).**

Plusiarges Gürich 1901 a synonym of *Trochurus* Beyrich 1845 p. 70, **Přibyl (2).**

Poliella denticulata Rasetti protaspis described briefly p. 737, **Palmer (2).**

Polyeres Rouault 1847 a synonym of *Selenopeltis* Hawle & Corda 1847 p. 67, **Přibyl (2).**

Polytomurus Hawle & Corda 1847 a synonym of *Dionide* Barrande 1847 p. 38, **Přibyl (2).**

Portlockia McCoy 1846 referred tentatively to Acastinae but may be close to Phacopidellinae p. 826, **Pillet.**

Presbynileus **gen. n. (nom. n.** for *Paranileus* Hintze 1953 *non* Kobayashi 1951) for type *Paranileus ibexensis* H. p. 119, **Hintze** J. Paleont. **28** 1 1954.

Přibylia see *Proetus.*

Pricyclopyge **subgen. n.** see *Cyclopyge.*

Probolium Oehlert 1889 discussed and restricted, "*P.*" *tridens* Hall 1861 may belong to *Ligometopus* p. 827, **Pillet.**

Probolium nasutus (Conrad) hypotype of Delo 1940 in N.Y. State Museum p. 525, **Kilfoyle.**

Probolops Delo 1935 referred to Dalmanitinae p. 828, **Pillet.**

Proerbia prisca Lermontova text-fig. 84 (1), **Hupé.**

Proetid ? pygidia p. 672 pl. iii figs. 11–12, **Tripp.**

Proetidella Bancroft 1949 a synonym of *Proetus* (*Decoroproetus*) Přibyl 1946 p. 60, **Přibyl (2).**

Proetoidae taken to include Proetidae, Hystricuridae, Dimeropygidae, Plethopeltidae, Otarionidae text-fig. 2 [see also Ptychoparioidae], **Whittington (4).**

Proetus Steininger 1831 emend. Richter 1913—following as synonyms *Aeonia* Burmeister 1843, *Forbesia* McCoy 1846, *Gerastos* Goldfuss 1843, *Trigonaspis* Sandberger 1850; *P.* (*Decoroproetus*) Přibyl 1946 with synonym *Proetidella* Bancroft 1949 p. 60, **Přibyl (2).**

Proetus Steininger 1831 discussed, *P.* (*Crassiproetus*) **subgen. n.** p. 110 for type *P.* (*C.*) *traversensis* **sp. n.** p. 112 pl. i figs. 1–2, 10–15, 17, *P.* (*C.*) *microgranulatus* **sp. n.** p. 111 pl. i figs. 3, 8, 19, *P.* (*C.*) *alpenensis* **sp. n.** p. 113 pl. i figs. 4–5, 20, *P.* (*C.*) *norwoodensis* **sp. n.** p. 114 pl. i fig. 18, *P.* (*C.*) sp. *A* p. 114 pl. i fig. 16, *P.* (*C.*) sp. *B* p. 115 pl. i fig. 9 U.S.A. (Mich.), *P.* (*C.*) *canadensis* **sp. n.** Canada (Ontario) Devonian (Middle) p. 113 pl. i figs. 6–7; following spp. referred to *P.* (*Crassiproetus*)—*P. folliceps* Hall & Clarke 1888, *P. crassimarginatus* H. 1843 [excluding free cheek of H. 1876 pl. 20 figs. 23–24 and H. & C. 1888 pl. 20 figs. 23–24 which is referred to *Dechenella* sp.], *P. searighti*, ? *P. arietinus*, ? *P. occidens*, ? *P. bumastoides* Walter 1925 spp., *Cornuproetus calhounensis* Cooper & Cloud 1938 p. 111; *P. macrocephalus* H. 1861 type of *Dechenella* (*Monodechenella*) **subgen. n.** p. 123, **Stumm** Contr. Mus. Geol. Univ. Mich. **10** 1953.

Proetus see Gen. et sp. ind. 13.

Proetus fragments pp. 107, 108, **Belyea.**

Proetus (*Proetus*) species groups of Přibyl and Erben considered artificial p. 15, *P.* (*P.*) *granulosus* Goldfuss 1843 an independent sp. with synonym *P. margaritaceus* Gürich p. 8 pl. i figs. 1–5, pl. ii figs. 1–3 text-figs. 3, 4 (each 2 views), *P.* (*P.*) *moravicus* Smyčka 1895 [lectotype chosen] geographical variety from Poland p. 11 pl. ii figs. 5–7 text-figs. 5 (3 views), 6 (2 views), *P.* (*P.*) sp. p. 14 pl. ii fig. 4 text-fig. 7 (2 views), **Kielan.**

Proetus clarus p. 643 *ff.*, **Oliver.**

Proetus cf. *cuvieri* Stein., *P.* sp. p. 5 *n*, Czarnocki *in* **Kielan.**

Proetus lepidus Barr. p. 8, *P.* cf. *ryckholti* B., *P.* sp. p. 7, **Přibyl (1).**

Proetus (*Proetus*) *listei* Kegel, *P.* (*P.*) cf. *orbitatus* Barr., *P.* (*Cornuproetus*) *buchi taciturnus* and *b. pernix* K., *P.* (*C.*) spp., *P.* (*C.*) *cacuminatus* (K.), *P.* (*C.?*) *hassiacus* K., *P.* (*Eremiproetus*) *papilio* Erben, *P.* (*E.*) *angulatus* E., *P.* (*Unguliproetus*) cf. *serus* (B.), *P.* (*Lepidoproetus*) cf. *lepidus* (B.) p. 23, *P.* (*Cyphoproetus*) *depressus* (B.) and *P.* sp. p. 12, **Kegel.**

Proetus loredensis of Thadeu 1947 represents a new genus of Harpedidae p. 125, **Prantl & Přibyl.**

Proetus ? mailisorensis **sp. n.** p. 76 pl. xi fig. 25, *P.* sp. 1 Ordovician U.S.S.R., **Weber** Monogr. Paleont. S.S.S.R. **69** 1948.

Proetus (*P.*) *orbitatus* Barr., *P.* (*P.*) cf. *o.*, *P.* (*P.*) *neglectus* B. n. subsp. [Erben 1952], *P.* (*P.*) *listei* Kegel, *P.* (*Cornuproetus*) *midas m.* and *midas leptus* Erben, *P.* (*C.*) *neocorrugatus* E., *P.* (*C.*) *pictus* (Gieb.) [and sp. ? *p.* p. 17], *P.* (*C.*) *buchi* (H. & C.) subspp. *taciturnus* Kegel, *pernix* K., *exanthemoides* E., *platykraspedon* E., [*P.* (*C.*) sp. ex aff. *b.* p. 53], *P.* (*C.*) *dufrésnoyi* (H. & C.) *kahlenbergensis* E. and *d. planilimbatus* E., [*P.* (*C.*) sp. ex aff. *d.* p. 53], *P.* (*C.*) *trautensteinensis* E., *P.* (*C.*) spp. α and β K., *P.* (*C.*) *cacuminatus* K., *P.* (*C.*) *hassiacus* K., *P.* (*Přibylia*) *inaequicostatus limbuscostatus* E., *P.* (*Lepidoproetus*) *kegeli obesus* E., *P.* (*Eremiproetus*) *eremita* (B.) and *e.* n. subsp. [? Erben 1952], *P.* (*E.*) *natator confrater* E., *P.* (*E.*) *papilio* E., *P.* (*E.*) *angulatus* E., *P.* (*Piriproetus*) *pirus* E., *P.* (*P. ?*) sp. *A* E., *P.* (*Unguliproetus*) *unguloides* (B.), *P.* (subg. *A.*) *nannus* E. listed pp. 92–97,

P. sp. p. 3 *ff.*, *P.* (*C.*) sp. p. 25, *P.* (*Proetus*) sp. *A* E. p. 33, *P.* (*P.*) n. sp. [undescr.] (=*crassimargo* Koch *non* Roem.) p. 37, *P.* (*Piriproetus*) *amblyops* and cf. *a.* E. p. 37, **Erben.**

Proetus (*Proetus*) *stenopyge* Hall & Clarke p. 14 pl. i fig. 1, *P.* (*P.*) *folliceps* H. & C. [including *P. crassimarginatus* of H. 1876 *partim* pl. 20 fig. 20 (refigured) and H. & C. 1888 *partim* pl. 20 fig. 20] p. 15 pl. ii figs. 1–2, 7–8, *P.* (*Crassiproetus*) *crassimarginatus* (H.) [excluding H. 1876 pl. 20 figs. 20, 23–24 and H. & C. 1888 pl. 20 figs. 6–8, 20, 23–34] holotype refigured p. 15 pl. i figs. 2–13, pl. ii figs. 9–10, *P.* (*C.*) *c. glabrus* **subsp. n.** [including with query *P. c.* of H. & C. 1888 *partim* pl. 20 figs. 6–8 and *P. conradi* H. 1876 *partim* pl. 20 figs. 8–9] Kentucky and Ohio p. 17 pl. ii fig. 11, *P.* (*C.*) sp. aff. *c.* (H.) p. 17 pl. ii figs. 3–6, *P.* (*C.*) *sibleyensis* **sp. n.** [including *P. c.* of Bassett 1935] Michigan Devonian (Middle) U.S.A. p. 18 pl. ii figs. 12–16; *P. planimarginatus* Meek referred to *Dechenella* (*Dechenella*) [quod vide] p. 20 as are *P. welleri* Stauffer, *P. delphinulus* H. & C. p. 21, ? *P. angustifrons* H. p. 22, ? *P. verneuili* H. *non* Barrande [renamed *halli* **nom. n.**] p. 23; *P. clarus* H., *P. canaliculatus* H., and *P. tumidus* H. & C. to *D.* (*Basidechenella*) p. 24, **Stumm** Contr. Mus. Geol. Univ. Mich. **11** 2 1953.

Proëtus sp. Clarke 1909 hypotypes, *P.* sp. Clarke & Ruedemann 1903 hypotype, *P.* sp. C. 1913 hypotype, *P. phocion* Billings hypotype of C. 1908, *P. undulostriatus* (Hall) cast of holotype etc.: all in N.Y. State Museum p. 526, **Kilfoyle.**

Proetus sp. *H.* p. 34 pl. i figs. 14–16, *P.* sp. *W.* for *P.* sp. of Asselberghs 1930 and R. & E. Richter 1942 p. 34 Devonian (Lower) Germany, *P.* sp. p. 20 pl. i fig. 17, **R. & E. Richter (1).**

Proparia Beecher 1897 retained for Cheiruracea (Encrinuridae, Cheiruridae, Pliomeridae), Bohemillidae, and Phacopacea (Phacopidae, Dalmanitidae) p. 20, **Přibyl (2).**

Prosaukia longicornis p. 880, *P.* cf. *P. dubia*, *P.* sp. p. 877, **Berg.**

Protolenidae R. & E. Richter 1948 discussion and subfamilies p. 148 *ff.*, Strenuellinae included without query p. 150, **Hupé.**

Protopresbynileus **gen. n.** (**nom. n.** for *Pseudonileus* Hintze 1953 *non* Kobayashi 1951) for type *Pseudonileus willdeni* H. p. 119, **Hintze** J. Paleont. **28** 1 1954.

Protypus [? *P.* ? *bohemicus*] Pompeckj 1895 referred with query to *Ellipsocephalus* Zenker 1833 p. 78, **Přibyl (2).**

Prozacanthoides sp. indet. p. 1041, **Shaw (2).**

Psalaspis see *Idahoia.*

Psalikilus Ross 1951 referred to Hystricurinae p. 446, **Poulsen.**

Pseudagnostus recorded p. 51, **Hanson (1).**

Pseudagnostus recorded p. 19, **Hanson (2).**

Pseudagnostus josepha p. 878, **Berg.**

Pseudagnostus josephus (Hall) pl. xxv figs. 5 *pars*, 22, *P. cyclopyge* pl. xxv fig. 19 *pars*, pl. xxvi fig. 13, *P. bilobus* Shaw pl. xxvi fig. 11, *P.* sp. and *P.* ? sp. p. 259, **Wilson (1).**

Pseudocryphaeus **gen. n.** [Dalmanitidae (Asteropyginae)] for type *Phacops michelini* Rouault 1851 p. 831 text-pl. iii fig. 6, **Pillet** Bull. Soc. géol. Fr. (6) **3** 9 1954.

Pseudohystricurus sp. Ross 1951 [called *P.* sp. undet. on pl. expl.] p. 274 pl. xxvi fig. 15, **Wilson (1).**

Pseudomonaspis R. & E. Richter 1917 a synonym of *Acidaspis* Murchison 1839 p. 25, **Přibyl (2).**

Pseudonileus Kobayashi 1951 an [objective] synonym of *Hemibarrandia* Prantl & Přibyl 1949 p. 44, **Přibyl (2).**

Pseudonileus Hintze 1952 [recte 1953] *non* Kobayashi 1951 renamed *Protopresbynileus* **nom. n.** [quod vide] p. 119, **Hintze.**

Pseudoolenoides undescr. sp. p. 260, H. B. Whittington *in* **Twenhofel et al.**

Pseudosolenopleura Sun 1935 referred to Solenopleurinae p. 445, **Poulsen.**

Pseudosphaerexochus asper **sp. n.** p. 67 pl. xi figs. 1, 4, text-figs. 32, 33, *P. ? yakovlevi* **sp. n.** p. 68 pl. xi figs. 5, 6, text-figs. 34, 35, *P.* sp. 1 (aff. *P. panschi* Schm.) p. 69 pl. xi figs. 7–9, text-fig. 36, *P.* sp. 2 (aff. *P. p.*) p. 70, *P.* spp. ind. 3 and 4, *P.* sp. ind. 5 pl. xi fig. 33 Ordovician U.S.S.R., **Weber** Monogr. Paleont. S.S.S.R. **69** 1948.

Pseudosphaerexochus ? jakovlevi Web., *P.* aff. *pahnshi* [sic] Schm. p. 58, **Keller & Lisogor.**

Psilacella Whittard 1952 considered a subgenus of *Cyclopyge* Corda p. 12, **R. & E. Richter (1).**

Psychopyge Termier 1950 referred to Dalmanitinae p. 828, **Pillet.**

Pterocephalia recorded p. 51, **Hanson (1).**

Pterocephalina cf. *P. grata* Resser 1942 p. 271 pl. xxv figs. 8, 13, pl. xxvi fig. 1, **Wilson (1).**

cf. *Pteroparia* sp. p. 5 *n*, CZARNOCKI *in* **Kielan.**

Pterygometopidae Reed 1905 discussed and classified into Pterygometopinae, and Chasmopsidae [sic] and Eomonoracheinae **subfamm. n.** p. 832, **Pillet.**

Pterygometopinae (Reed 1905) emend. taken to include *Pterygometopus* Schmidt 1882 and *Achatella* Delo 1935 p. 832, **Pillet.**

Pterygometopus bredensis **sp. n.** Ordovician (Lower) U.S.S.R. (Urals) p. 77 pl. xi figs. 35–37, **Weber** Monogr. Paleont. S.S.S.R. **69** 1948.

Ptychagnostus Jaekel 1909 referred to Agnostinae, *P. richmondensis* (Walcott) for *Agnostus r.* W. 1884 [pygidium assigned=*A. bidens* W. 1884 (*non* Meek)] p. 61 pl. xiii figs. 4, 5, **Palmer (1).**

Ptychagnostus pichum **sp. n.** Cambrian (Upper) Argentina p. 48 pl. iv fig. 1, **Rusconi** Rev. Mus. Hist. nat. Mendoza **7** 1–4 1954.

Ptychaspidoidae see Ptychoparioidae.

Ptychaspis recorded p. 51, **Hanson (1).**

Ptychaspis miniscaensis p. 877, *P. granulosa*, *P. arcolensis* p. 878 *ff.*, *P. tuberosa* p. 879, *P.* sp. p. 880, **Berg.**

Ptychoparella teucer p. 1039 *ff.*, *P.* sp. indet. p. 1043, **Shaw (2).**

Ptychoparia homfrayi (Hicks) for *Conocoryphe h.* (Salter MS) H. [quod vide] p. 35, **Jackson.**

Ptychoparia newtonensis Weller 1903 referred to *Theodenisia* p. 609, *P. blairi* W. to *Triarthropsis* p. 607, **Rasetti (2).**

Ptychoparia piochensis Walcott 1886 referred to *Alokistocare* [quod vide] p. 72, *P. laeviceps* W. 1884 to *Asaphiscus* [quod vide] p. 73, *P. ? prospectensis* W. 1884 to *Eldoradia* p. 77, *P. occidentalis* W. 1884 with query to *Elrathia* p. 79, *P. oweni* W. 1884 (*non* Meek & Hayden) to *Modocia nevadensis* **sp. n.** p. 81, **Palmer (1).**

Ptychopariid [undet.] p. 1043, **Shaw (2).**

Ptychopariidae see *Pareuloma* **gen. n.**

Ptychoparioidae — suggested tentative grouping together as an order with the following Cambrian superfamilies Asaphiscoidae, Utioidae, Parasolenopleuroidae, Agrauloidae, Solenopleuroidae, Olenoidae, Dikellocephaloidae, Ptychaspidoidae, Burlingioidae, and their postulated post-Cambrian descendants Asaphoidae, Trinucleoidae, Harpoidae, Proetoidae, Illaenoidae p. 198 text-fig. 1, **Whittington (4).**

Ptychopleurites recorded p. 51, **Hanson (1).**

Ptychopyge ? vodorezovi **sp. n.** (aff. *P. thebawi* Reed) [including *P. ?* Weber 1932 and *Basilicus* cf. *peltastes* of Kolova 1936 refigured] p. 29 pl. v figs. 1–6, 8, ?7, ?9, ?12 Ordovician (Middle) U.S.S.R. (Turkestan etc.), **Weber** Monogr. Paleont. S.S.S.R. **69** 1948.

Pyraustocranium Ross 1951 excluded from Törnquistiidae [quod vide] p. 100, **Whittington & Evitt.**

Quadragnostus Howell 1935 accepted as a synonym of *Peronopsis* Hawle & Corda 1847 p. 60, **Palmer (1).**

Quadragnostus Howell 1935 a synonym of *Peronopsis* Hawle & Corda 1847 p. 53, **Přibyl (2)**

Querandinia **gen. n.** [no family assigned], *Q. conicephala* [*conocephala* on fig. expl.] **sp. n.** p. 55 text-fig. 29 Cambrian (Upper) Argentina, **Rusconi** Rev. Mus. Hist. nat. Mendoza **7** 1–4 1954.

Raaschella Lochman 1938 referred tentatively to Acrocephalitinae p. 445, **Poulsen.**

Raaschella recorded p. 51, **Hanson (1).**

Rananasus vertical range Chart 2, **Twenhofel et al.**

Raphiophoridae Angelin discussed p. 14, **Weber (1).**

Raphiophoridae referred to Trinucleoidae text-fig. 2, **Whittington (4).**

Raphiophorus rouaulti (Barrande), *R. tenellus* (B.), *R. gratus* (B.) listed from Bohemia p. 63, **Přibyl (2).**

Raphiophorus ? aff. *semicostatus* Billings p. 15 pl. ii figs. 17–18, *R.? bulbifer* (Web.) for *Ampyx b.* Weber 1932 p. 15 pl. ii figs. 9–10, *R. ? ovulum* **sp. n.** Ordovician (Lower) U.S.S.R. (Turkestan) p. 15 pl. ii figs. 12–13 text-fig. 4, *R.* aff. *volborthi* Schmidt [referred to *A.* pl. expl.] p. 16 pl. ii fig. 19 text-fig. 5, **Weber** Monogr. Paleont. S.S.S.R. **69** 1948.

Raphioporus [sic] *ovulum* Web. p. 58, **Keller & Lisogor.**

Raymondarges Phleger 1937 with query a synonym of *Dicranopeltis* Hawle & Corda 1847 p. 37, **Přibyl (2).**

Raymondaspis n. sp. (Klouček 1916) listed from Bohemia p. 63, **Přibyl (2).**

Raymondites vertical range Chart 2, **Twenhofel et al.**

Raymondites ingalli (Raymond) p. 37, **Sinclair.**

"*Redlichia*" *intermedia* Lu text-fig. 57, **Hupé.**

Redlichioidae general discussion p. 135, constituent families p. 139 *ff.*, **Hupé.**

Redlichioidae — suggested grouping with Olenelloidae as an order p. 198, **Whittington (4).**

Reedia see *Phacops.*

Reedops see *Phacops.*

Remopleurides biaculeatus **sp. n.** p. 664 pl. ii figs. 1–12, *R.* sp. p. 666 pl. ii figs. 13–15 Ordovician (Middle) Britain (Scotland), **Tripp** Trans. roy. Soc. Edinb. **62** 1954.

Remopleurides pisiformis **sp. n.** p. 19 pl. ii figs. 27–29, *R.* cf. *pisiformis* p. 19 pl. iii figs. 2–4, *R. sibiricus* **sp. n.** [attrib. to M. M. Vasilievsky] with synonym *R. asiaticus* V. [nom. nud.?] p. 20 pl. iii fig. 7, *R.* sp. 1 (aff. *R. latifrons* Holm) p. 21 pl. ii fig. 33, *R.* sp. 2 (? *R. pisiformis*) p. 21 pl. ii fig. 34, pl. iii fig. 6, *R.* sp. 3 p. 21 pl. iii fig. 1, *R.* spp. ind. 4 and 5 p. 21, *R.* sp. ind. 6 [for *R.* sp. 2 Kolova 1936] p. 22, *R.* sp. ind. 7 p. 22 pl. iii fig. 5, *R.* spp. ind. 8 and 9 p. 22 Ordovician (Upper), *R. mukatchensis* **sp. n.** p. 21 pl. ii figs. 30–32 Ordovician (Lower) U.S.S.R., **Weber** Monogr. Paleont. S.S.S.R. **69** 1948.

Remopleurididae referred to Asaphoidae text-fig. 2, **Whittington (4).**

Resserops recorded p. 1818, **Choubert & Hupé.**

Rhenops see *Asteropyge.*

Robergia vertical range Chart 2, **Twenhofel et al.**

Robergia deckeri Cooper 1953 p. 614, **Whittington (3).**

Růžičkaia Přibyl 1950 a synonym of *Lobocephalina* Růžička 1939 p. 47, **Přibyl (2).**

Sao Barrande 1846 (*non* Billberg 1820) suggested that name be conserved, following considered synonyms *Monadina* B. 1846, *Acanthocnemis*, ? *Acanthogramma*, *Crithias*, *Enneacnemis*, *Goniacanthus*, ? *Micropyge*, *Selenosema*, *Staurogmus*, *Tetracnemis* Corda 1847 genn. p. 446, **Poulsen.**

Sao Barrande 1846 (*non* Billberg 1820) support for conservation of name, list of synonyms [as Poulsen above, with the addition of *Endogramma* Hawle & Corda 1847] p. 64, referred to Olenidae (Oleninae) p. 16, **Přibyl (2).**

Saoidae Hupé 1953 see Saoinae.

Saoinae Hupé 1953 considered a subfamily of Solenopleuridae to include *Sao*, *Pardailhania*, *Solenopleuropsis* p. 445, **Poulsen.**

Scharyia micropyga (Hawle & Corda) p. 142, **Prantl & Přibyl.**

Schizopyge Clarke 1913 referred tentatively to Acastinae p. 826, **Pillet.**

Schmidtaspis Kobayashi 1943 referred tentatively to Bathynotinae p. 32, *S. sibiricus* K. pl. vi figs. 5a-b, **Kobayashi.**

Scotiella Delo 1935 discussed, *S. logani* Hall 1860 lectotype selected p. 22 *n*, **R. & E. Richter (1).**

Scutellum Pusch 1833—*Goldius* Koninck 1841, *Bronteus* Goldfuss 1843, *Dicranactis* and *Holomeris* Hawle & Corda 1847 listed as synonyms p. 65, **Přibyl (2).**

Scutellum barrandi (Hall) hypotype of Clarke 1908, *S. b.* var. *major* (Clarke) for *Bronteus b. m.* C. holotype in N.Y. State Museum p. 527, **Kilfoyle.**

Scutellum (*S.*) *bischofi* (Roem.), *S.* (*S.*) *viator* and cf. *v.* (Barr.), *S.* (*S.*) *angusticeps* subspp. *inermis* (B.), *elytroleium* Kegel, *pycnochondrum* K., *S.* (*S.*) *analogum mendax* Erben, *S.* (*S.*) sp. [ex aff. *caelebs* (B.)], *S.* (*S.*) *roemeri* (Kayser), *S.* (*Thysanopeltis*) *speciosum* H. & C., *S.* (*Kolihapeltis?*) *brevifrons amphichondrum* K. listed pp. 92–97, *S.* (*S.*) sp. p. 3, *S.* sp. p. 5 *ff.*, *S.* (*S.*) *elongatum* (B.) p. 37, **Erben.**

Scutellum (*Scutellum*) *flabelliferum* (Goldfuss 1839) lectotype chosen p. 28 pl. iv figs. 6–9 text-figs. 20 (2 views), 21 (2 figs.), 22, 23 (sections of test); *S.* (*Paralejurus*) *dormitzeri* cf. *dormitzeri* (Barrande) p. 31 pl. iv fig. 10 text-figs. 24 (2 views), 25, **Kielan.**

Scutellum (*Thysanopeltis*) cf. *speciosum* (Hawle & Corda 1847) p. 85 pls. v, vi, **Strnad & Kalabis.**

Scutellum tullium depressum Cooper & Cloud 1938 p. 128 pl. v figs. 12–13, **Stumm (1).**

Scutellum umbellifer (Beyer) p. 8, **Přibyl (1).**

Scutellum (*S.*) *umbelliferum* (Beyrich) p. 142, *S.* (*S.*) *gaudryi* (Barr.), *S.* (*Kolihapeltis*) *parabolinum* (Barr.) p. 149, *S.* (*Paralejurus*) *dormitzeri* (Barr.) p. 156, **Prantl & Přibyl.**

Scutellum (*Scutellum*) *viator* (Barr.), *S.* (*S.*) *angusticeps inermis* (B.), *a. pycnochondrum* Kegel and *a. elytroleium* K., *S.* (*Kolihapeltis ?*) *brevifrons amphichondrum* (K.) p. 23, **Kegel.**

Seleneceme recorded p. 254, **Wilson (1).**

Selenecemidae referred to Trinucleoidae text-fig. 2, **Whittington (4).**

Selenopeltis Hawle & Corda 1847—*Polyeres* Rouault 1847 a synonym p. 67, **Přibyl (2).**

Selenoptychus Hawle & Corda 1847 a synonym of *Cyclopyge* H. & C. p. 34, **Přibyl (2).**

Selenosema Corda 1847 a synonym of *Sao* Barrande 1846 p. 446, **Poulsen** [also p. 64 **Přibyl (2)**].

Serrodiscus R. & E. Richter 1941—*Paradiscus* Kobayashi 1943 a synonym p. 117, *S. speciosus* (Ford) text-fig. 41 (1), **Hupé.**

Shumardia pusilla (Sars) hypotype of Ruedemann 1934 in N.Y. State Museum p. 527, **Kilfoyle.**

Shumardia sp. undet. p. 582 pl. lx fig. 16, **Rasetti (1).**

Shumardia sp. undet. p. 275 pl. xxvi fig. 8, **Wilson (1).**

Skreiaspis Růžička 1944 emend. Přibyl 1952 [sic]—*Herse* Hawle & Corda 1847 (*non* Oken 1815) a synonym, *S. neubergii* (H. & C.) with synonym *Arionellus spinosus* Jahn 1896 p. 67, **Přibyl (2).**

Solenoparia Kobayashi 1935 referred tentatively to Solenopleurinae p. 445, **Poulsen.**

Solenopleura Angelin 1854 discussed p. 443 and referred to Solenopleurinae, **Poulsen.**

Solenopleurella Poulsen 1927 referred to Solenopleurinae p. 445, **Poulsen.**

Solenopleuridae Angelin 1854 discussed and classified into Solenopleurinae, Acrocephalitinae, Saoinae, Hystricurinae p. 444, **Poulsen.**

Solenopleuridae Angelin 1854—*Lonchocephalus* Owen and *Welleraspis* Kobayashi provisionally referred p. 600, **Rasetti (2).**

Solenopleuridae — *Hystricurus* Raymond 1913 referred p. 42, **Heller.**

Solenopleurina Růžička 1938 referred to Solenopleurinae p. 445, **Poulsen.**

Solenopleurinae Angelin 1854 discussed and taken to include *Solenopleura*, ? *Albansia*, *Asthenopsis*, *Berkeia*, ? *Crusoia*, ? *Knechtella* [sic], ? *Menocephalites*, *Parasolenopleura*, *Perneraspis*, *Pseudosolenopleura*, ? *Solenoparia*, *Solenopleurella*, *Solenopleurina*, *Spencia*, *Sulcocephalus* p. 444, **Poulsen.**

Solenopleuroidae see Ptychoparioidae.

Solenopleuropsis Thoral 1947 referred to Saoinae p. 446, **Poulsen.**

Somatrikelon M'Mutrie 1819 with query a synonym of *Phacops* p. 54, **Přibyl (2).**

Sonoraspis Stoyanow 1952 a synonym of *Glossopleura* Poulsen 1927 p. 67, **Palmer (1).**

Spencia Resser 1939 referred to Solenopleurinae, *Stauroholcus* R. 1939 a synonym p. 445, **Poulsen.**

Sphaerexochus Beyrich 1845 discussed p. 66, *S.* aff. *calvus* McCoy, *S. hisingeri* Warb. pl. x figs. 29–32, pl. xi fig. 2, text-fig. 31, *S. hisingeri ?* p. 67 pl. xi fig. 3, **Weber (1).**

Sphaerexochus pulcher **sp. n.** p. 87 pl. xvii figs. 28–51, pl. xx figs. 1–19, pl. xxi figs. 1–4, pl. i figs. 1–3 (sections), text-figs. 24–26 (reconstructions), *S. hapsidotus* **sp. n.** p. 92 pl. xxxii figs. 6–35, pl. xxxiii figs. 1–44, text-fig. 27 Ordovician (Middle) U.S.A. (Va), *S.* spp. Butts 1941 discussed p. 92, development of *S.* p. 94, **Whittington & Evitt** Mem. geol. Soc. Amer. No. 59 1954.

Sphaerexochus sp. p. 51, **Keller & Lisogor.**

Sphaerocoryphe psiles **sp. n.** Ordovician (Middle) Britain (Scotland) p. 677 pl. iii figs. 29–31, **Tripp** Trans. roy. Soc. Edinb. **62** 1954.

Sphaerocoryphe ? sp. ind. p. 75 pl. xi fig. 17, **Weber (1).**

Spinagnostidae Howell 1935 — *Acadagnostus* Kobayashi 1939 referred p. 122, **Hupé.**

Spinagnostus cerrillensis Rusc. p. 18 pl. ii fig. 13, **Rusconi (1).**

Staurocephalus murchisoni Barrande 1846 — *Trochurus speciosus* of Hawle & Corda 1847 a synonym p. 68, **Přibyl (2).**

Staurocephalus sp. p. 75 pl. xi fig. 18, **Weber (1).**

Staurogmus Corda 1847 a synonym of *Sao* Barrande 1846 p. 446, **Poulsen** [also p. 64 **Přibyl (2)**].

Stauroholcus Resser 1939 a synonym of *Spencia* R. 1939 [quod vide] p. 445, **Poulsen.**

Stenochilina Ulrich *in* Bridge 1930 discussed and referred to Catillicephalidae, *S. spinifera* U. text-fig. 2*f* only sp. assigned to gen. p. 606; *S. anceps* Resser and *S. appalachia* R. referred to *Welleraspis* p. 601, **Rasetti (2).**

Stenochilina — reference to Komaspidae not upheld p. 31, **Kobayashi.**

Stenopareia Holm 1886 discussed p. 570, following spp. of *Illaenus* referred *I. linnarssoni* Holm 1882 pl. ii figs. 4–6 text-figs. 8B, 9B, 10F, 16A, B, *I. proles* and *I. livonicus* H. 1886, *I. panderi* Barrande 1852, *I. bowmanni* Salter 1848, *I. b.* vars. *brevicapitatus* and *longicapitatus* Reed 1896, *I. nexilis* S. 1867, *I. thomsoni* S. 1851, *I. balclatchiensis* Reed 1904, *I. shallochensis* R. 1904, *I. aemulus* S. 1867, *I. oviformis* Warburg 1925 lectotype figured pl. ii fig. 7 text-fig. 3D, *I. avus* var. *lissbergensis* W. 1925, *I. rotundus*, *I. norvegicus*, *I. postremus*, *I. sculptus*, ? *I. longispinosus* Whittard 1939 spp., *I. glaber* Kjerulf 1865 (with probable synonym *I. avus* H. 1886 text-fig. 10E), *I. percéensis* Cooper 1930, *I. fluvialis* Reed 1933, *I. tyronensis* R. 1933, *I. convergens* R. 1935, *I. balclatchiensis* var. *cristata* R. 1935, *I. longicapitatus* var. *subcarinata* R. 1935, *I. proles* var. *shelvensis* W. 1938, **Jaanusson.**

Stigmacephalus oweni, *S. oweni* var. A p. 878, *S. similis* p. 879, **Berg.**

Stigmaspis hudsonensis p. 877, **Berg.**

Strenuaeva recorded p. 1819, **Choubert & Hupé.**

Strenuella recorded p. 34, **Choubert.**

Strenuella frankenwaldensis (Wurm) with young form p. 453, **Horstig.**

Strenuellinae Hupé referred without query to Protolenidae p. 150, **Hupé.**

Strettonia Cobbold 1931 referred without query to Protolenidae (Myopsoleninae) p. 152, **Hupé.**

Stygina sp. p. 667 pl. ii figs. 25–26, **Tripp.**

Stygina sp. nov. [undescr.] p. 58, **Keller & Lisogor.**

Styginidae not placed in Illaenoidae text-fig. 2, **Whittington (4).**

Sulcocephalus Wilson 1948 referred to Solenopleurinae p. 445, **Poulsen.**

Sulcocephalus recorded p. 51, **Hanson (1).**

Symphysops Raymond 1925 considered a subgenus of *Cyclopyge* Corda 1847 p. 12, **R. & E. Richter (1).**

Symphysops armatus (Barrande) and *S. mitratus* (Novák) recorded p. 69, **Přibyl (2).**

Symphysops ? Phylacops ? djebaglica (Kolova) for *Cyclopyge d.* K. 1936 p. 55 pl. viii figs. 29–30, **Weber (1).**

Symphysurina recorded p. 33, **Shaw (1).**

Symphysurina woosteri Ulrich p. 74 pl. xiii figs. 2–5, **Powell.**

Symphysurina cf. *S. woosteri* Ulrich 1925 p. 284 pl. xxvii figs. 10, 14, **Wilson (1).**

Symphysurus Goldfuss 1843—*Paranileus* Kobayashi 1951 a synonym p. 69, **Přibyl (2).**

Symphysurus see Gen. et sp. ind. 11.

Symphysurus ? anderssoni Troedsson 1937 referred tentatively to *Borthaspidella* **gen. n.** p. 587, **Rasetti (1).**

Symphysurus convexus (Cleland) p. 87 *ff.* pl. iv figs. 8–9, **Fisher.**

Symphysurus ? sp. p. 58, **Keller & Lisogor.**

Synhomalonotus aragoï, *S. tristani* p. 35, **Choubert.**

Synphoria Clarke 1900 considered (following R. & E. Richter 1942) taxonomically illegitimate, spp. grouped therein by Delo referred to *Neosynphoria* **nom. n.** p. 834, **Pillet.**

Synphoria dolbeli (Clarke) for *Dalmanites d.* C. 1907 cotypes etc., *S. ? lowi* (C.) for *D. l* C. cotypes etc., *S. ? whiteavesi* (C.) for *D. w.* C. holotype : all in N.Y. State Museum p. 527 *ff.*, **Kilfoyle.**

Synphoroides Delo 1940 referred to Eomonoracheinae **subfam. n.** p. 833, **Pillet.**

Synphoroides biardi (Clarke) for *Dalmanites* (*Probolium*) *b.* C. holotype and paratypes, *S. esnoufi* (C.) for *D.* (*P.*) *e.* C. holotype. *S. ? griffoni* (C.) for *D. g.* C. holotype and paratype, *S. pleuroptyx* (Green) hypotypes of Clarke 1909 [as *D. p.*] : all in N.Y. State Museum p. 529 *ff.*, **Kilfoyle.**

Syspacephalus sp. A [undescr.] p. 1043 *ff.*, **Shaw (2).**

Taenicephalus Ulrich & Resser 1925—Kobayashi's 1938 spp. excluded but not reassigned, " *T.*" *megalops* K. 1938 p. 271 pl. xxvi fig. 28, pygidium (of *Aphelaspis* affinities) possibly referable to " *T.*" *longifrons* K. 1938 p. 271 pl. xxvi fig 27 *pars*, *T.* sp. undet. p. 271 pl. xxv fig. 2, **Wilson (1).**

Taenicephalus recorded p. 51, **Hanson (1).**

Taenicephalus, *T. ?* recorded p. 19, **Hanson (2).**

Taenicephalus bipunctatus p. 80, **Thiel.**

Taenicephalus ? osella for *Drumaspis osella* Resser 1942 p. 36, **Kobayashi.**

Taenicephalus shumardi, *T.* sp. p. 877 *ff.*, *T. altus*, *T.* cf. *a.* p. 878 *ff.*, **Berg.**

Telephacea Stubblefield discussed and classified into Komaspidae and Telephidae p. 31, **Kobayashi.**

Telephus vertical range Chart 2, **Twenhofel et al.**

Telephus bicuspis Angelin (=*T. jemtlandicus* Ulrich + *T. haddingi* U.) pl. vi figs. 1a-c, *T. spiniferus* U. pl. vi fig. 7, **Kobayashi.**

Telephus levis Web. MS [nom. nud.] p. 58, **Keller & Lisogor.**

Termierella recorded p. 1819, **Choubert & Hupé.**

Tetracnemis Corda 1847 a synonym of *Sao* Barrande 1846 p. 446, **Poulsen** [also p. 64 **Přibyl (2)**].

Tetralichas Phleger 1936 a synonym of *Amphilichas* p. 78, **Přibyl (2)**.

Tetralichas Phleger considered probably a synonym of *Acrolichas* Foerste 1920 p. 58, **Weber (1)**.

Tetrapsellium Hawle & Corda 1847 a synonym of *Cryptolithus* Green 1832 p. 33 **Přibyl (2)**.

Tetraspis [recte *Tretaspis*] *pedemontanus* Rusc. p. 73 text-fig. 4, **Rusconi (2)**.

Thaleops Conrad 1843 discussed, following spp. referred *T. ovata* C. 1843 text-figs. 13 A-C, *Illaenus arctura* Hall 1847, *I. conifrons* Billings 1865, *T. borealis* Teichert 1937, ? *I. pterocephalus* Whitfield 1878 p. 567 ; *Hydrolaenus* Salter 1867 accepted as a synonym p. 564, **Jaanusson.**

Thaleops see *Illaenus.*

Theamataspis Öpik 1937 discussed and provisionally excluded from Illaenidae, *Illaenus minor* Thorslund referred p. 579, *T. illaenoides* Ö. attribution of pygidium considered uncertain, **Jaanusson.**

Theodenisia Clark 1948 discussed and referred to Catillicephalidae, *Acheilus* Raymond 1924 [quod vide] a synonym p. 607, *T. eminens* (Clark) for *Denisia e.* C. (with synonym *D. pusilla* C.) text-fig. 3*d* (2 drawings), *T. lata* (Rasetti) text-fig. 3*a* (3 drawings), *T. communis* (R.) text-fig. 3*b* (2 drawings), *T. microps* (R.) text-fig. 3*e* (drawing), *T. marcoui* (Raymond) text-fig. 3*c* (4 drawings) ; list of assigned spp. including *Ptychoparia newtonensis* Weller and *Triarthropsis princetonensis* Kobayashi p. 609, **Rasetti (2)**.

Thomastus **gen. n.** [Illaenidae] p. 22 for type *T. thomastus* **sp. n.** p. 23 pl. viii figs. 61–71 text-figs. 8 (I–V), *T. collusor* **sp. n.** p. 24 pl. ix figs. 72–74, *T. vicarius* **sp. n.** p. 24 pl. ix figs. 75–79 Silurian (Lower) Australia (Victoria) ; *Illaenus jutsoni* Chapman [quod vide] (of which *T. vicarius* may be a synonym) may belong to *Thomastus* p. 26 ; *T.* may be treated as a blind subgen. of *Bumastus* p. 23, **Öpik** Mem. geol. Surv. Vict. No. 19 1953.

Thysanopeltis see *Scutellum.*

Törnquistia Reed 1896 referred to Dimeropygidae Hupé of which Törnquistiidae H. a synonym, *T. translatus* R. and *T. reedi* Thorslund discussed p. 35, " *T.*" *parvula* T. and *T. altifrons* Warburg (tentatively) referred to *Dimeropyge* p. 37, **Whittington & Evitt.**

Törnquistia shlygini **sp. n.** p. 50 pl. viii fig. 17 text-fig. 20 Ordovician (Upper) U.S.S.R., **Weber** Monogr. Paleont. S.S.S.R. **69** 1948.

Törnquistiidae Hupé 1953 a synonym of Dimeropygidae H. 1953 [quod vide] p. 100, **Whittington & Evitt.**

Tostonia Walcott 1925 referred to Oleninae, *T* sp. undet. p. 279 pl. xxvi fig. 4 *pars*, **Wilson (1)**.

Trachylichas Gürich 1901 a synonym of *Dicranopeltis* Hawle & Corda 1847 p. 37, **Přibyl (2)**.

Tramoria Reed 1899 a synonym of *Apatokephalus* Brögger 1896 p. 26, **Přibyl (2)**.

Trapelocera Hawle & Corda 1847 a synonym of *Ceratocephala* Warder 1838 p. 31, **Přibyl (2)**.

Tretaspis see *Tetraspis.*

Tretaspis cf. *bucklandi* (Barrande) p. 13 pl. ii figs. 6–7, *T.* sp. for *Trinucleus* aff. *b.* Kolova 1936 p. 14 pl. ii fig. 5, **Weber (1)**.

Tretaspis praecedens (Klouček) so referred p. 70, **Přibyl (2)**.

Triangulaspis Lermontova 1940 referred to Hebediscidae p. 115, **Hupé.**

Triarthropsis Ulrich *in* Bridge 1930 discussed and referred to Catillicephalidae p. 606, *T. nitida* U. text-fig. 2*d* (drawing), *T. marginata* (Rasetti) for *Acheilus ? m.* R. text-fig. 2*e* (2 drawings) ; *T. princetonensis* Kobayashi referred to *Theodenisia* p. 609, **Rasetti (2)**.

Triarthropsis — reference to Komaspidae not upheld p. 31, **Kobayashi.**

Triarthropsis pampanus Rusc. pp. 32, 44 pl. iii figs. 1–3 text-fig. 19, *T. australis* (R.) p. 36, **Rusconi (1).**

Triarthrus vertical range Chart 2, **Twenhofel et al.**

Triarthrus becki Green, *T. eatoni* (Hall), *T. huguiensis* Foerste, *T. spinosus* Billings: hypotypes of Ruedemann 1926 in N.Y. State Museum p. 532, **Kilfoyle.**

Triarthrus eatoni Hall p. 261 *ff.*, **Lattman.**

Triarthrus turkestanicus **sp. n.** p. 6 pl. i figs. 5–7, *T. t.* forma *parva* [**nov.**] p. 7 pl. i fig. 8, *T.* sp. (? *T. turkestanicus*) p. 7 pl. i fig. 4 Ordovician (Middle) U.S.S.R. (Turkestan), **Weber** Monogr. Paleont. S.S.S.R. **69** 1948.

Tricrepicephalus recorded p. 51, **Hanson (1).**

Tricrepicephalus anarusconii **sp. n.** p. 49 pl. iv figs. 2–4, *T. nahuelus* **sp. n.** p. 50 pl. iv fig. 5, ? *T. serranus* **sp. n.** p. 51 pl. iv fig. 6 Cambrian (Upper) Argentina, **Rusconi** Rev. Mus. Hist. nat. Mendoza **7** 1–4 1954.

Tricrepicephalus tripunctatus (Whitfield) 1876 p. 33, **Shaw (1).**

Trigonaspis Sandberger 1850 a synonym of *Proetus* p. 59, **Přibyl (2).**

Trigonocerca sp. undet. [pygidium] p. 283 pl. xxvii figs. 16, 17, 20, **Wilson (1).**

Trimerocephalus see *Phacops.*

Trinodus McCoy 1846—*Arthrorhachis* Hawle & Corda 1847 a synonym p. 70, **Přibyl (2).**

Trinodus glabratus var. *kirgizica* **var. n.** Ordovician (Lower) U.S.S.R. (Turkestan) p. 5 pl. i figs. 1–3, **Weber** Monogr. Paleont. S.S.S.R. **69** 1948.

Trinodus glabratus var. *kirgisica* Web. p. 58, **Keller & Lisogor.**

Trinodus sp. p. 614, **Whittington (3).**

Trinucleidae Emmrich 1844 see Trinucleoidinae **subfam. n.**

Trinucleidae gen. et sp. ind. for *Trinucleus* cf. *ornatus ?* of Kolova 1936 p. 14 pl. ii fig. 8, **Weber (1).**

Trinucleoidae taken to include Trinucleidae, Dionididae, Raphiophoridae, Selenecemidae, Endymionidae text-fig. 2 [see also Ptychoparioidae], **Whittington (4).**

Trinucleoides Raymond 1917 referred to Trinucleoidinae **subfam. n.** p. 15, **Přibyl (2).**

Trinucleoidinae **subfam. n.** [Trinucleidae] for *Trinucleoides* Raymond 1917 p. 15, **Přibyl** Knihovna úst. Úst. geol. No. 25 1953.

Trinucleus bucklandi Barrande hypotype of Ruedemann 1916 in N.Y. State Museum p. 533, **Kilfoyle.**

Trinucleus aff. *bucklandi* Kolova 1936 referred to *Tretaspis* sp., *T.* cf. *ornatus ?* of K. 1936 to Trinucleidae gen. et sp. ind. p. 14, **Weber (1).**

Trochurus Beyrich 1845—*Corydocephalus* Hawle & Corda 1847 and *Plusiarges* Gürich 1901 synonyms p. 70, *T. speciosus* B. 1845 with synonyms *Lichas palmatus* Barrande 1846 and *C. flabellatus* H. & C. listed; *T. speciosus* of H. & C. a synonym of *Staurocephalus murchisoni* Barrande 1846 p. 68, **Přibyl (2).**

Tropidocoryphe latens (Barr.) listed p. 93, **Erben.**

Trypaulites Delo 1935 referred to Monorakeidae p. 835, **Pillet.**

Trypaulites Delo 1935 discussed p. 208, *T. calypso* (Hall 1861) p. 209 pl. iii figs. 1–2, *T.* sp. aff. *T. c.* p. 209 pl. iii fig. 3, **Stumm (3).**

Turcopyge eduardi R. & E. Richter 1939 holotype in N.Y. State Museum p. 533, **Kilfoyle.**

Typhloniscus Salter 1856 referred tentatively to Acastinae, but may be a Cheirurid p. 826, **Pillet.**

Typhloproetus subcarinthiacus R. Richter 1913 p. 36 pl. i fig. 5, *T. s.* n. var. p. 36 pl. i fig. 6, *T. schindewolfi* (R. & E. R.) 1919 and *T.* sp. p. 37, *T. dietzi* R. & E. R. 1951 p. 53, *T. saalfeldensis* [misspelt *saalfendensis* at description] **sp. n.** Devonian (Upper) Germany (Thüringia) p. 86 pl. ix figs. 1–4, **Pfeiffer** Beih. Z. Geol. No. 11 1954.

Ucebia recorded p. 51, **Hanson (1).**

Ucebia simplex Raymond referred to *Distazeris* [quod vide] p. 603, *U. lata* R. see *Catillicephala*, **Rasetti (2)**.

Unguliproetus see *Proetus*.

Utioidae see Ptychoparioidae.

Vanuxemella nortia Walcott text-fig. 90 [reconstruction by F. Rasetti], **Hupé.**

Waribole see *Cyrtosymbole*.

Weberides Reed 1942 relations and possible synonymy with *Paladin* Weller 1936 p. 5, **Whittington (2)**.

Welleraspis Kobayashi 1935 discussed and referred tentatively to Solenopleuridae, *Avonaspis* Lochman 1940 a subjective synonym, *W. jerseyensis* (Weller) text-fig. 1c (5 drawings), *W. swartzi* (Tasch) for *Lonchocephalus s.* T. ontogenetic stages described p. 609 pl. lxii figs. 1–15 text-figs. 1*b* (2 drawings), 4 (drawings of protaspis and meraspis); following spp. also assigned to genus: *Stenochilina anceps* Resser, *S. appalachia* R., *W. newfoundlandensis* Lochman, *Avonaspis missouriensis* L., *Lonchocephalus waddlei* Tasch, *Coosella vulgaris* T. p. 601, **Rasetti (2)**.

Wilbernia recorded p. 51, **Hanson (1)**.

Wilbernia recorded p. 19, **Hanson (2)**.

Wilbernia halli p. 877 *ff.*, *W. explanata*, *W. pero*, *W.* sp., *W. hudsonensis* p. 878 *ff.*, *W. edwardsi* p. 879 *ff.*, *W.* cf. *W. edwardsi* p. 880, **Berg.**

Wilbernia sp. undet. p. 273 pl. xxv figs. 3, 11, 20, *W. ? minuta* **sp. n.** Cambrian (Upper) U.S.A. (Texas) p. 273 pl. xxv figs. 1, 5, 6, **Wilson** J. Paleont. 28 3 1954.

Wilburnia [sic] sp. p. 80, **Thiel.**

Wossekia Raymond 1916 accepted as a synonym of *Ectillaenus* Salter 1867 p. 576, **Jaanusson.**

Wossekia Raymond 1916 a synonym of *Ectillaenus* Salter 1867 p. 46, **Přibyl (2)**.

Yinites typicalis Lu text-fig. 62 (1), **Hupé.**

Zacanthoides Walcott 1888 discussed, type taken to be *Z. romingeri* Resser 1935 (replacement name for *Embolimus spinosa* Rominger 1887) p. 69, *Z. spinosus* (Walcott) for *Ogygia ? s.* W. 1884 holotype refigured p. 70 pl. xv figs. 5, 7, *Z. typicalis* (W.) for *Olenoides t.* W. 1886 (ascribed hypostome may belong to *Alokistocare piochensis*) holotype refigured p. 70 pl. xv fig. 9, **Palmer (1)**.

Zacanthoides n. sp. [undescr.] p. 1044, **Shaw (2)**.

Zacanthoididae — *Strettonia* Cobbold 1931 [quod vide] not included p. 162, **Hupé.**

Zacanthopsis sp. indet. p. 1039, **Shaw (2)**.

Zeliskellinae [sic] Delo 1935 not accepted, *Zeliskella* [recte *Zeliszkella*] D. 1935 being referred to Dalmanitinae p. 830, **Pillet.**

Gen. et sp. ind. 1 p. 79 text-fig. 39, Gen. et sp. ind. 2 for *Dionide* [*?*] of Kolova 1936, Gen. et sp. ind. 3 (aff. *Petigurus nero* Bill.) pl. viii fig. 28, Gen. et sp. ind. 4 (aff. *Annamitella namnoiensis* Reed) p. 80 text-fig. 40, Gen. et sp. ind. 5 pl. xi fig. 30, Gen. et sp. ind. 6 pl. xi fig. 27, Gen. et sp. ind. 7 (? *Illaenus convexicollis* **sp. n.**) p. 81, Gen. et sp. ind. 8 pl. xi fig. 31, Gen. et sp. ind. 9, Gen. et sp. ind. 10 pl. xi fig. 32, Gen. et sp. ind. 11 [13 on pl. expl.] (? *Nileus*, *Symphysurus*) pl. viii [non xiii] figs. 7–9, Gen. et sp. ind. 12, Gen. et sp. ind. 13 (*Proetus* ?), Gen. et sp. ind. 14 p. 82 pl. xi fig. 34, Gen. et sp. ind. 15, 16, 17, 18, Gen. et sp. ind. 19 (*Ceraurus*) pl. viii fig. 37 Ordovician U.S.S.R., **Weber** Monogr. Paleont. S.S.S.R. **69** 1948.

Gen. et sp. ind. [6] Weber 1948 placed in synonymy of *Bathyuriscops granulatus* (W.) p. 76, **Keller & Lisogor.**

Genus and species undet. [Conocoryphidae] p. 275 pl. xxvii fig. 12, **Wilson (1)**.

Hypostome A pl. ii fig. 31, Hypostome B pl. iii fig. 9, Hypostome C pl. iii fig. 10 p. 686 Ordovician (Middle) Britain (Scotland), **Tripp.**

Pygidium sp. undet. 4 p. 282 pl. xxvi fig. 26, **Wilson (1)**.

Pygidium sp. undet. 5 [may belong to *Parabolinella incerta* or *Olenus* cf. *truncatus*] p. 282 pl. xxvi fig. 25, **Wilson (1).**

Species and genus undet. [Asaphinae hypostome] p. 284 pl. xxvi fig. 9, **Wilson (1).**

Trilobites [undetermined] pl. iii fig. E, **Hanson (2).**

Trilobites [unnamed] from Minnesota text-figs. 57 (1–7, 10–11, 13–21) Cambrian, 59 (8, 13, 16) Ordovician, **Schwartz & Thiel.**

Undescribed genera Cambrian (Upper) U.S.A. (Utah) p. 51, **Hanson (1).**

Undetermined cranidia of *Aphelaspis* form p. 270 pl. xxv figs. 7, 12 *pars*, **Wilson (1).**

Undetermined pygidium 1 p. 269 pl. xxiv fig. 13, Undetermined pygidium 2 p. 270 pl. xxiv fig. 15, Undetermined pygidium 3 p. 270 pl. xxiv fig. 12, **Wilson (1).**

Unidentified fragment of trilobite pl. xiii fig. 13, **Powell.**

Unidentified spine of trilobite pl. xiii fig. 14, **Powell.**

Unidentified trilobite p. 52, **Heller.**

IV.—ERRATUM

The article by **Přibyl,** A., published in Bull. int. Acad. Prague **51** (for 1950) 1953 : 209–230 [recorded Z. R. **91** 11 title **55**] is an English translation of the article by the same author published in Rozpr. české Akad. [2] **60** (for 1950) 24 1951 : 1–20 [recorded Z. R. **88** 11 title **43**], and new species date from the earlier version.